

Section 6

Area, Geography, and Climate

Statistics in this section relate to area, climatologic, topographic, and hydrologic measurements of the United States. There are few official publications other than those showing area measurements (issued infrequently by the Bureau of the Census), which present area and geography statistics of national scope. However, many data are compiled for particular regions or for internal administrative purposes by such Federal Government agencies as the Geological Survey, the Coast and Geodetic Survey, and the Weather Bureau.

Area.—Area measurements in the United States began with measurements for the country as a whole and developed, as mapping progressed, to measurements for the States.

The annual report of the U.S. General Land Office for 1850 contained the first reference to the areas of the several States and Territories, although there was no indication of the method used in obtaining these measurements. Until 1881, the General Land Office was practically the sole source of information concerning the areas of the States and Territories.

In 1881, the Bureau of the Census, as a part of the 1880 Census of Population, laid the foundation for accurate and detailed area measurement in the United States. For the first time an account was given of the method and maps employed, the water bodies included, and the outer limits of the United States used as a basis for measurement. In 1940, the same Bureau, in its publication, *Areas of the United States: 1940*, presented the first basic measurement of the United States since its work in 1880. The data presented in that study cover the total land and water areas of the States, counties, cities, and minor civil divisions. For the 1950 and 1960 Censuses no comprehensive remeasurement of all areas was made, but adjustments in selected area figures were made for three principal reasons: (1) Changes in boundaries, (2) the development of water reservoirs, or (3) the improvement in maps from which area measurements are made.

Geography.—The Geological Survey, cooperating in some instances with State and local agencies, is responsible for topographic and geologic maps and for basic data concerning the quantity, quality, and movement of surface and ground water.

The Bureau of Land Management conducts cadastral surveys.

The Coast and Geodetic Survey has responsibility for coastal and geodetic surveys and measurement of certain physical phenomena. Authorized in 1807, this agency's original function was to survey and chart the coast of the United States and the outlying islands and fishing banks. In 1871, Congress authorized an extension of the geodetic surveys from coast to coast to provide the States with reference markers for the control of their topographic and geologic mapping and their boundary surveys, and to provide data for use by the Geological Survey and other agencies. Since 1927, the Coast and Geodetic Survey has also been in charge of preparing aeronautical charts for the United States and its outlying areas.

A civil mapping activity of the Corps of Engineers, the U.S. Lake Survey, was established in 1841. Its primary function is to furnish Great Lakes navigators with reliable charts and information regarding harbor facilities. It also maintains records of the fluctuating levels of the lakes, the flow through connecting rivers, and the precipitation over the lakes, and reports on all hydraulic problems relating to the Great Lakes.

Air pollution.—The Public Health Service first established an air sampling network in 1953. The Federal Air Pollution Research and Technical Assistance Act (PL 159, 84th Congress), under the provisions of which the present National Air Sampling Network was created, became effective in 1955. The Network's objectives are to determine the extent and nature of air pollution, to study trends in levels of atmospheric contaminants, and to investigate relationships between air pollution and socio-economic, geographic, topographic, and other factors. Currently there are 250 sampling stations in the Network, 215 urban and 35 nonurban.

The Radiation Surveillance Network is a cooperative air sampling program consisting of 72 collection stations. It was established by the Public Health Service and is operated by the Division of Radiological Health in conjunction with State health departments.

Climate.—The Weather Bureau is responsible for essentially all meteorologic data and collects, processes, and publishes climatologic data. It maintains about 11,000 weather stations, of which nearly 3,000 produce autographic precipitation records, about 600 take automatic or hourly readings of a series of weather elements, and the remainder record one observation a day. There are few records in existence for stations before 1871 although some detailed records began in the 18th century.

Nearly all weather stations have been moved several times in their history. Consequently, the Weather Bureau uses "normal" values of temperature and precipitation for comparative purposes rather than long-term means which are derived from records taken at the different locations the stations may have had over the years.

Normal values of temperature and precipitation are based on records for the 30-year period 1931 to 1960. For stations having records for the entire 30 years from the same instrument site, monthly precipitation and temperature normals are the means of the monthly values for the 30 years; for temperature, the normal maximum and normal minimum values were used to obtain monthly normals. The annual normal temperature is obtained by dividing by 2 the sum of the annual normal maximum value and the annual normal minimum value of temperature.

For stations that did not have continuous records from the same instrument site for the entire 30 years, 1931 to 1960, the means have been adjusted to the record at the present site. In these adjustments, a "difference factor" was used for temperature and a "ratio factor" for precipitation. These factors were determined by parallel comparison, either between records at the actual station sites or through a second station that had a continuous record to compare against both sites for obtaining the resultant adjustment factors. Normals were thereafter obtained as outlined above.

This system of normals has three characteristics: (1) The 30-year period (1931 to 1960) adopted for the computations is consistent with the term of years accepted by the World Meteorological Organization for climatic normals; (2) where the station and exposure for records in a given locality have been changed, the whole record has been carefully studied and adjusted to the latest source of records and reports; (3) the normals for maximum and minimum temperatures are separately tabulated.

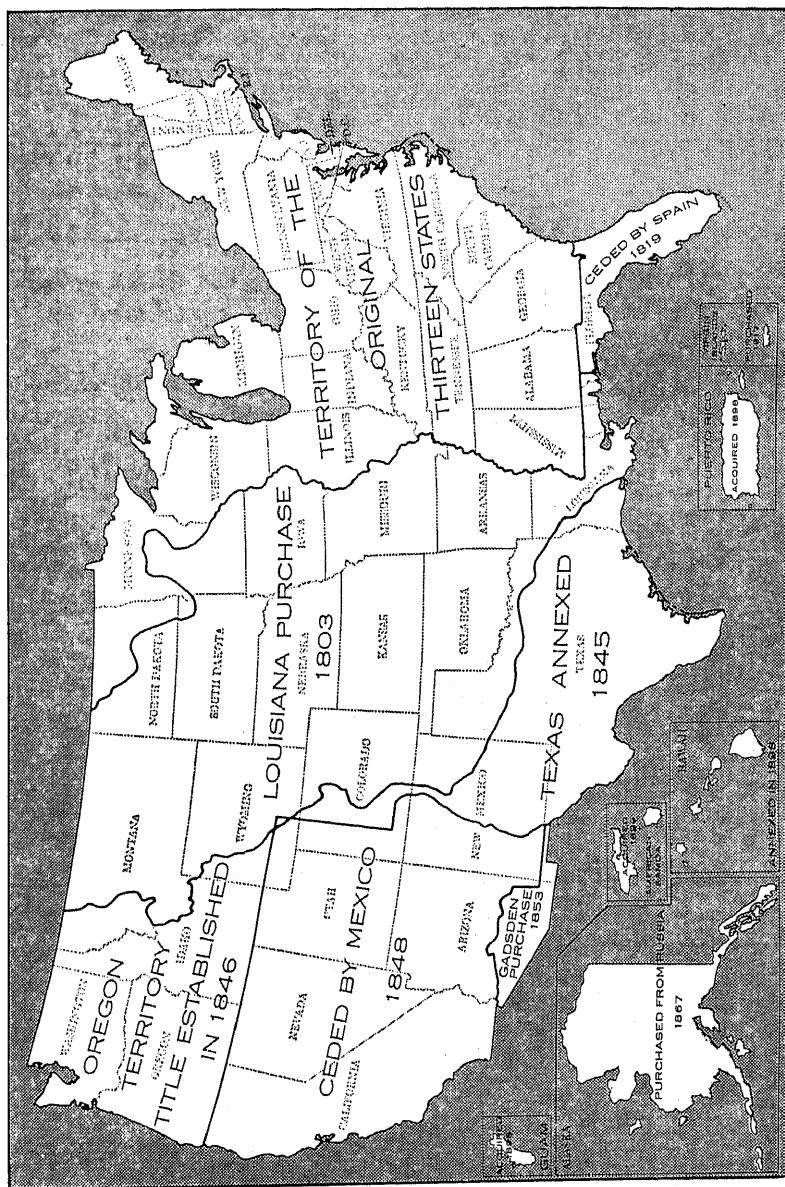
The degree-day normals are derived from the values for the monthly normal maximum and minimum temperatures, and computed from the standard base 65° F. The degree day has been defined as follows: "A unit, based upon temperature difference and time, used in estimating fuel consumption and specifying nominal heating load in winter. For any one day, when the mean temperature is less than 65° F., there exist as many degree days as there are Fahrenheit degrees difference in the temperature between the average temperature for the day and 65° F."

Alaska and Hawaii.—Statements specifying inclusion or exclusion of figures for Alaska and Hawaii appear in the headnotes to each table unless the inclusion or exclusion is self-evident. "Conterminous area" refers to the United States excluding Alaska, Hawaii, and outlying areas.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1957*. See preface.

FIG. XII. TERRITORIAL EXPANSION OF THE UNITED STATES AND ACQUISITIONS OF OTHER PRINCIPAL AREAS

[See table 226]



Source: Dept. of Commerce, Bureau of the Census.

No. 226. TERRITORIAL EXPANSION OF THE UNITED STATES AND ACQUISITIONS OF OTHER AREAS

[Boundaries of all territories listed under "United States" were indefinite, at least in part, at time of acquisition. Area figures shown here represent precise determinations of specific territories which have been marked upon maps, based upon interpretations of the several treaties of cession, which are necessarily debatable. These determinations were made by a committee consisting of representatives of various governmental agencies in 1912. Subsequently these figures were adjusted to bring them into agreement with remeasurements made in 1960. See also *Historical Statistics, Colonial Times to 1937*, series J 1-2.]

ACCESSION	Date	Gross area (land and water)	ACCESSION	Date	Gross area (land and water)
Total.....	1960	Sq. mi. 3,628,150	Other:		Sq. mi.
United States.....		3,615,211	The Philippines ²	1898	115,600
Territory in 1790 ¹		888,811	Puerto Rico.....	1899 ³	3,435
Louisiana Purchase.....	1803	827,102	Guam.....	1899 ⁴	212
By treaty with Spain:			American Samoa.....	1900	76
Florida.....	1819	58,560	Canal Zone ⁵	1904	563
Other areas.....	1819	13,443	Corn Islands ⁶	1914	4
Texas.....	1845	390,144	Virgin Islands of the U.S.....	1917	133
Oregon.....	1846	285,580	Trust Territory of the Pacific.....		
Mexican Cession.....	1848	529,017	Islands ⁷	1947	8,484
Gadsden Purchase.....	1853	29,640	All other ⁸		42
Alaska.....	1867	586,400			
Hawaii.....	1898	6,424			

¹ Includes that part of drainage basin of Red River of the North, south of 49th parallel, sometimes considered part of Louisiana Purchase.

² Not included in total. Ceded by Spain in 1898, the Philippines constituted a territorial possession of the United States from 1898 to 1946. Granted independence as of July 4, 1946, they then became the Republic of the Philippines.

³ Ceded by Spain in 1898 and became Commonwealth of Puerto Rico by Act of Congress on July 25, 1952. See table 4.

⁴ Acquired 1898; ratified 1899.

⁵ Acquired 1899; ratified 1900.

⁶ Under jurisdiction of United States in accordance with treaty of Nov. 18, 1903, with Republic of Panama.

⁷ Leased (1914) from Republic of Nicaragua for 99 years.

⁸ Under trusteeship. See table 4, footnote 16.

⁹ Comprises following islands with gross areas as indicated: Midway (2), Wake (3), Palmyra (4), Canton and Enderbury (combined area, 27), Swan (1), Navassa (2), Baker, Howland, and Jarvis (combined area, 3), Johnston and Sand (combined area, less than 0.5), Kingman Reef, Quitta Sueño Bank, Roncador Cay, and Serrano Bank (each less than 0.5), and other islands specified in table 4, footnote 9, for which area figures are not available.

Source: Dept. of Commerce, Bureau of the Census; unpublished data.

No. 227. COASTLINE OF THE UNITED STATES, BY STATES

[In statute miles]

STATE	General coastline ¹	Tidal shoreline ²	STATE	General coastline ¹	Tidal shoreline ²
United States.....	12,383	88,633	Atlantic coast—Continued		
Atlantic coast.....			South Carolina.....	187	2,876
Connecticut.....	2,069	28,673	Virginia.....	112	3,315
Delaware.....	28	381	Gulf coast.....		
Florida.....	590	3,331	Alabama.....	1,631	17,141
Georgia.....	100	2,344	Florida.....	53	607
Maine.....	228	3,478	Louisiana.....	770	5,095
Maryland.....	31	3,190	Mississippi.....	397	7,721
Massachusetts.....	192	1,519	Texas.....	44	359
New Hampshire.....	13	131		367	3,350
New Jersey.....	130	1,792	Pacific coast.....		
New York.....	127	1,350	Alaska.....	7,623	40,298
North Carolina.....	301	3,375	California.....	5,580	31,383
Pennsylvania.....		89	Hawaii.....	840	3,427
Rhode Island.....	40	384	Oregon.....	750	1,052
			Washington.....	296	1,410
				157	3,026
			Arctic coast, Alaska.....	1,060	2,521

¹ Figures are lengths of general outline of seacoast. Measurements were made with a unit measure of 30 minutes of latitude on charts as near the scale of 1:1,200,000 as possible. Coastline of sounds and bays is included to a point where they narrow to width of unit measure, and includes the distance across at such point.

² Figures obtained in 1939-1940 with a recording instrument on the largest-scale charts and maps then available. Shoreline of outer coast, offshore islands, sounds, bays, rivers, and creeks is included to the head of tidewater or to a point where tidal waters narrow to a width of 100 feet.

Source: Dept. of Commerce, Coast and Geodetic Survey; *Coastline of the United States*, April 1, 1961.

Area

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No. 228. AREA OF STATES AND OTHER AREAS: 1960
 [Area in square miles. See also table 4]

STATE OR OTHER AREA	Capital	Year of admission to Statehood	AREA			
			Total	Rank order	Land ¹	Water ²
United States	Washington, D.C.		3,615,211		3,548,974	66,237
New England						
Maine	Augusta	1820	66,608	39	63,126	3,482
New Hampshire	Concord	1788	33,215	44	31,012	2,203
Vermont	Montpelier	1791	9,304	43	9,014	290
Massachusetts	Boston	1788	9,600	45	9,276	333
Rhode Island	Providence	1790	8,257	45	7,867	390
Connecticut	Hartford	1788	1,214	50	1,058	156
Middle Atlantic						
New York	Albany	1788	102,745		100,467	2,278
New Jersey	Trenton	1787	49,576	30	47,930	1,637
Pennsylvania	Harrisburg	1787	7,836	46	7,521	315
East North Central						
Ohio	Columbus	1803	41,222	35	40,972	250
Indiana	Indianapolis	1816	36,291	38	36,185	106
Illinois	Springfield	1818	56,400	24	55,930	470
Michigan	Lansing	1837	58,216	23	57,019	1,197
Wisconsin	Madison	1848	56,154	26	54,705	1,449
West North Central						
Minnesota	St. Paul	1858	517,247		509,674	7,573
Iowa	Des Moines	1846	84,068	12	80,009	4,059
Missouri	Jefferson City	1821	56,290	25	56,032	258
North Dakota	Bismarck	1889	69,686	19	69,138	548
South Dakota	Pierre	1889	70,665	17	69,457	1,208
Nebraska	Lincoln	1867	77,047	16	76,378	669
Kansas	Topeka	1861	77,227	15	76,612	615
South Atlantic						
Delaware	Dover	1787	82,264	14	82,048	216
Maryland	Annapolis	1788	278,902		267,605	11,207
Dist. of Columbia						
Virginia	Richmond	1788	2,057	49	1,978	79
West Virginia	Charleston	1863	10,577	42	9,874	703
North Carolina	Raleigh	1789	69	51	61	8
South Carolina	Columbia	1788	40,815	36	39,838	977
Georgia	Atlanta	1788	24,181	41	24,079	102
Florida	Tallahassee	1845	58,876	21	58,274	602
East South Central						
Kentucky	Frankfort	1792	58,560	22	54,252	4,308
Tennessee	Nashville	1796	181,964		179,908	2,056
Alabama	Montgomery	1819	40,395	37	39,863	532
Mississippi	Jackson	1817	42,244	34	41,762	482
West South Central						
Arkansas	Little Rock	1836	51,609	29	51,060	549
Louisiana	Baton Rouge	1812	47,716	32	47,223	493
Oklahoma	Oklahoma City	1907	438,885		429,332	9,553
Texas	Austin	1845	69,919	18	68,887	1,032
Mountain						
Montana	Helena	1889	267,339	2	262,809	4,499
Idaho	Boise	1890	863,887		856,951	6,936
Wyoming	Cheyenne	1890	45,523	27	52,499	605
Colorado	Denver	1876	69,191	31	65,106	3,417
New Mexico	Santa Fe	1912	104,247	8	103,884	363
Arizona	Phoenix	1912	121,666	5	121,510	156
Utah	Salt Lake City	1896	113,909	6	113,575	334
Nevada	Carson City	1864	84,916	11	82,339	2,577
Pacific						
Washington	Olympia	1889	110,540	7	109,788	752
Oregon	Salem	1850	916,690		897,010	19,680
California	Sacramento	1850	68,192	20	66,709	1,483
Alaska	Juneau	1959	96,981	10	96,248	733
Hawaii	Honolulu	1959	153,603	3	156,573	2,120
Other areas:						
Puerto Rico	San Juan		536,400	1	571,065	13,335
American Samoa	Pago Pago		6,424	47	6,415	9
Canal Zone ⁴						
Guam	Agana		553		362	191
Trust Terr. of Pacific Islands ⁵			212		209	3
Virgin Islands of U.S.	Charlotte Amalie		8,484		687	7,797
			133		132	1

¹ Dry land and land temporarily or partially covered by water, such as marshland, swamps, and river flood plains; streams, sloughs, estuaries, and canals less than one-eighth of a statute mile in width; and lakes, reservoirs, and ponds less than 40 acres of area.

² Permanent inland water surface, such as lakes, reservoirs, and ponds having 40 acres or more of area; streams, sloughs, estuaries, and canals one-eighth of a statute mile or more in width; deeply indented embayments and sounds, and other coastal waters behind or sheltered by headlands or islands separated by less than 1 nautical mile of water; and islands having less than 40 acres of area. Does not include water surface of the oceans, bays, the Gulf of Mexico, the Great Lakes, Long Island Sound, Puget Sound, and the Straits of Juan de Fuca and Georgia, lying within the jurisdiction of the United States but not defined as inland water.

³ Year of ratification of Constitution; one of the original 13 States.

⁴ See table 4, footnote 13. ⁵ See table 4, footnote 16.

Source: Dept. of Commerce, Bureau of the Census; U. S. Census of Population: 1960, Vol. I, and unpublished data.

Area, Geography, and Climate

No. 229. EXTREME POINTS OF THE UNITED STATES

[The geographic center of an area may be defined as the center of gravity of the surface, or that point on which the surface of the area would balance if it were a plane of uniform thickness. Because there is no generally accepted definition of geographic center, and no completely satisfactory method of determining it, there may be as many geographic centers of a State or country as there are definitions of the term. Because many factors such as curvature of the earth, large bodies of water, and irregular surfaces affect the determination of centers of gravity, the following positions should be considered as approximations only.]

LOCATION	Direction from geographic center	COORDINATES		Distance from geographic center
		Latitude (N)	Longitude (W)	
From geographic center of conterminous United States near Lebanon, Smith County, Kans., 39°50', 98°35' to—				
Lake of the Woods, Projection, Minnesota	North	49°23'	95°00'	680
Key West, Florida	South	24°33'	81°48'	1,436
West Quoddy Head, Maine	East	44°49'	66°57'	1,640
Cape Alava, Washington	West	48°10'	124°44'	1,412
From geographic center of United States (excl. Hawaii) ¹ near Castle Rock, Butte County, S. Dak., 44°59', 103°38' to—				
Point Barrow, Alaska	North	71°23'	156°29'	2,504
Key West, Florida	South	24°33'	81°48'	1,865
West Quoddy Head, Maine	East	44°49'	66°57'	1,779
Cape Wrangel, Attu Island, Alaska	West	52°55'	172°27' (E)	3,623
From geographic center of United States (incl. Alaska and Hawaii) ² 2° west of Castle Rock, S. Dak., 44°58', 103°46' to—				
Point Barrow, Alaska	North	71°23'	156°29'	2,502
Ka Lae (South Cape), Hawaii Island, Hawaii	South	18°46'	155°41'	3,456
West Quoddy Head, Maine	East	44°49'	66°57'	1,785
Cape Wrangel, Attu Island, Alaska	West	52°55'	172°27' (E)	3,620

¹ Excludes islands adjacent to the conterminous United States.

² Excludes islands adjacent to the conterminous United States, but includes all islands of the Aleutian chain and Hawaii.

Note.—The following distances in statute miles are computed to mean sea level: (a) from West Quoddy Head, Maine, west along the parallel to the Pacific Ocean, 2,807 miles; (b) from the south point of Texas due north to the 49th parallel, 1,598 miles; (c) from West Quoddy Head, Maine, to Cape Wrangell, Alaska, 4,839 miles; (d) from West Quoddy Head, Maine, to Kure Island, Hawaii, 5,788 miles; (e) from Mangrove Point, Florida, to Cape Wrangell, Alaska, 5,496 miles; (f) the two points farthest apart are Mangrove point, Florida, and Kure Island, Hawaii, a distance of 5,848 miles; (g) length of the northern boundary, excluding Alaska, is 3,987 miles; (h) length of the Canadian-Alaskan boundary, 1,538 miles; (i) length of the Mexican boundary from Gulf of Mexico to the Pacific Ocean, approximately 2,013 miles; (j) Cape Mendocino, California projection extends to latitude 40°27', at longitude 124°24'; Cape Sable, Florida (on mainland) projection extends to latitude 25°07', at longitude 81°05'; Kure Island, Hawaii projection extends to latitude 28°25', at longitude 175°22'. The extreme south point of Texas is in latitude 25°50', longitude 97°24'.

Source: Dept. of the Interior, Geological Survey; *Boundaries, Areas, Geographic Centers, and Altitudes of the United States and the Several States* (bulletin 817), M10-18A; *Geographic Centers of the United States*, M10-40; and unpublished data.

No. 230. WATER AREA, OTHER THAN INLAND WATER, BY PRIMARY BODIES OF WATER—STATES

[In square miles. Includes only that portion of body of water under the jurisdiction of the U.S., excluding Alaska and Hawaii. Excludes inland waters; see footnote 2, table 228]

BODY OF WATER	State	Area	BODY OF WATER	State	Area
Total		74,364	Gulf of Mexico coastal water		3,837
Atlantic coastal water		2,298		Alabama	500
Florida		37		Florida	1,698
Georgia		48		Louisiana	1,016
Maine		1,102		Mississippi	556
Massachusetts		955		Texas	7
Rhode Island		14	Lake Michigan		22,178
South Carolina		138		Illinois	1,526
Chesapeake Bay	Maryland	3,237		Indiana	238
	Virginia	1,511		Michigan	13,037
Delaware Bay	Delaware	605	New York Harbor		7,387
	New Jersey	350		New Jersey	92
Lake Erie	Michigan	5,002	Lake Ontario		69
	New York	216	Pacific coastal water		23
Straits of Georgia and Juan de Fuca	Ohio	594		New York	3,033
Lake Huron	Pennsylvania	3,457		California	343
Long Island Sound		735		Oregon	48
	Washington	1,610	Puget Sound		69
	Michigan	8,975	Lake St. Clair		226
	Connecticut	1,299	Lake Superior		116
	New York	573		Michigan	21,118
		726		Minnesota	16,231
				Wisconsin	2,675

Source: Dept. of Commerce, Bureau of the Census; *Areas of the United States: 1940*.

No. 231. LENGTHS OF PRINCIPAL RIVERS

[Comprises rivers 400 miles or more in length. Length represents distance to designated outflow from (a) original headwater of named river where name applies to entire length of channel, or (b) upper limit of channel so-named, usually the junction of 2 tributaries or headwater streams]

RIVER	Outflow	Length (miles)	RIVER	Outflow	Length (miles)
Apalachicola-Chattahoochee	Gulf of Mexico	500	Niobrara	Missouri River	431
Arkansas	Mississippi River	1,460	North Canadian	Canadian River	760
Brazos	Gulf of Mexico	870	North Platte	Platte River	618
Canadian	Arkansas River	906	Ohio	Mississippi River	981
Cimarron	Arkansas River	600	Ohio-Allegheny	Mississippi River	1,306
Clark Fork-Pend Oreille			Ouachita	Rod River	605
Colorado (U.S.-Mex.)	Columbia River	505	Pearl	Gulf of Mexico	490
Colorado (Texas)	Gulf of California	1,450	Pecos	Rio Grande	735
Columbia	Matagorda Bay	840	Pec De-Yadkin	Winyah Bay	435
Columbia, Upper	Pacific Ocean	1,214	Porcupine	Yukon River	450
Connecticut	To mouth of Snake River	890	Red (Okla.-Tex.-La.)	Mississippi River	1,018
Cumberland	Long Island Sound	407	Red River of the North	Lake Winnipeg	545
Gila	Ohio River	687	Republican	Kansas River	445
Green (Utah-Wyo.)	Colorado River	630	Rio Grande	Gulf of Mexico	1,885
James (N. Dak.-S. Dak.)	Colorado River	730	St. Francis	Mississippi River	425
Koyukuk	Missouri River	710	Salmon (Idaho)	Snake River	420
Kuskokwim	Yukon River	500	Santee-Wateree-Catawba	Atlantic Ocean	538
Little Missouri	Kuskokwim Bay	550	Smoky Hill	Kansas River	540
Marais des Cygnes—Osage	Missouri River	560	Snake	Columbia River	1,038
Milk	Missouri River	625	South Platte	Platte River	424
Mississippi	Mouth of SW Pass	2,848	Susquehanna	Chesapeake Bay	444
Mississippi, Upper	To mouth of Missouri River	1,171	Tanana	Yukon River	800
Mississippi-Missouri-Red Rock	Mouth of SW Pass	3,710	Tennessee	Ohio River	652
Missouri	Mississippi River	2,315	Tennessee-French Broad	Ohio River	862
Missouri-Red Rock	Mississippi River	2,533	Tombigbee	Mobile River	400
Mobile-Alabama-Coosa	Mobile Bay	639	Wabash	Ohio River	475
Neosho	Arkansas River	460	Washtita	Red River	500
			White (Ark.-Mo.)	Mississippi River	690
			Wisconsin	Mississippi River	430
			Yellowstone	Missouri River	671
			Yukon	Bering Sea	1,800

Source: Dept. of the Interior, Geological Survey; unpublished data.

No. 232. AREAS OF SELECTED NATURAL LAKES

[In square miles. Comprises lakes with surface area of 100 square miles or more]

LAKE	State	Area	LAKE	State	Area
Bear	Idaho and Utah	110	Rainy	Minnesota and Canada	345
Becharof	Alaska	468	Red Lake (Upper and Lower)	Minnesota	451
Champlain	New York, Vermont, and Canada	490	St. Clair	Michigan and Canada	460
Clark	Alaska	110	Salton Sea ¹	California	2,350
Dall	Alaska	100			
Flathead	Montana	197	Tahoe	California and Nevada	193
Great Salt ¹	Utah	2,100	Teshekpuk	Alaska	315
Himma	Alaska	1,000	Tustumena	Alaska	117
Lake of the Woods	Minnesota and Canada	1,485	Ugashik (Upper and Lower)	Alaska	147
Leech	Minnesota	176			
Mille Lacs	Minnesota	207	Upper Klamath	Oregon	142
Moosehead	Maine	117	Utah	Utah	140
Naknek	Alaska	242	Winnebago	Wisconsin	215
Okeechobee	Florida	700	Winnibigoshish	Minnesota	109
Pend Oreille	Idaho	148	Yellowstone	Wyoming	137
Pontebartrain ¹	Louisiana	625			

¹ Salty.

² Variable.

Source: Dept. of the Interior, Geological Survey; unpublished data.

No. 233. EXTREME AND MEAN ALTITUDES—STATES AND OTHER AREAS

[In feet]

STATE OR OTHER AREA	HIGHEST POINT		LOWEST POINT		Approximate mean altitude
	Name	Altitude	Name	Altitude	
United States	Mount McKinley	20,320	Death Valley	-282	2,500
Alabama	Cheaha Mountain	2,407	Gulf of Mexico	(1)	500
Alaska	Mount McKinley	20,320	Pacific Ocean	(1)	1,900
Arizona	Humphreys Peak	12,670	Colorado River	100	4,100
Arkansas	Magazine Mountain	2,823	Ouachita River	55	650
California	Mount Whitney	14,495	Death Valley	-282	2,900
Colorado	Mount Elbert	14,431	Arkansas River	3,350	6,800
Connecticut	Mt. Frissell, on South slope	2,380	Long Island Sound	(1)	500
Delaware	Ebright Road	442	Atlantic Ocean	(1)	60
District of Columbia	Tenleytown	410	Potomac River	(1)	150
Florida	Sec. 30, T6N, R20W, Walton County ²	345	Atlantic Ocean	(1)	100
Georgia	Brasstown Bald	4,784	Atlantic Ocean	(1)	600
Hawaii	Mauna Kea	13,796	Pacific Ocean	(1)	1,990
Idaho	Borah Peak	12,662	Snake River	720	5,000
Illinois	Charles Mound	1,241	Mississippi River	279	600
Indiana	Franklin Twp., Wayne Co., Sec. 3, T15N, R1W ²	1,257	Ohio River	320	700
Iowa	T100N, R44W, Osceola Co. ²	1,675	Mississippi River	480	1,100
Kansas	Mount Sunflower, See. 12, T12S, R43W, Wallace Co. ²	4,026	Verdigris River	700	2,000
Kentucky	Black Mountain	4,145	Mississippi River	257	750
Louisiana	Driskill Mountain	535	New Orleans	-5	100
Maine	Mount Katahdin	5,268	Atlantic Ocean	(1)	600
Maryland	Backbone Mountain, near Kempston, W. Va.	3,360	Atlantic Ocean	(1)	350
Massachusetts	Mount Greylock	3,491	Atlantic Ocean	(1)	500
Michigan	Mount Curwood	1,980	Lake Erie	572	900
Minnesota	Eagle Mountain, Cook Co.	2,301	Lake Superior	602	1,200
Mississippi	Woodall Mountain, near Iuka	806	Gulf of Mexico	(1)	300
Missouri	Taum Sauk Mountain	1,772	St. Francis River	230	800
Montana	Granite Peak	12,799	Kootenai River	1,800	3,400
Nebraska	Johnson Twp., Kimball Co., T12N, R59W ²	5,424	Southeast corner of State	840	2,600
Nevada	White Mountains, Boundary Peak	13,145	Colorado River	470	5,500
New Hampshire	Mount Washington	6,288	Atlantic Ocean	(1)	1,000
New Jersey	High Point	1,863	Atlantic Ocean	(1)	250
New Mexico	Wheeler Peak	13,190	Red Bluff Reservoir	2,817	5,700
New York	Mount Marcy	5,344	Atlantic Ocean	(1)	1,000
North Carolina	Mount Mitchell	6,684	Atlantic Ocean	(1)	700
North Dakota	White Butte, Slope County	3,506	Red River	750	1,900
Ohio	Campbell Hill	1,550	Ohio River	433	850
Oklahoma	Black Mesa	4,978	Red River	300	1,300
Oregon	Mount Hood	11,245	Pacific Ocean	(1)	3,300
Pennsylvania	Negro Mountain (Mount Davis)	3,213	Delaware River	(1)	500
Rhode Island	Jerimoth Hill	812	Atlantic Ocean	(1)	200
South Carolina	Sassafras Mountain	3,560	Atlantic Ocean	(1)	350
South Dakota	Harney Peak	7,242	Big Stone Lake	962	2,200
Tennessee	Clingmans Dome	6,642	Mississippi River	182	900
Texas	Guadalupe Peak	8,751	Gulf of Mexico	(1)	1,700
Utah	Kings Peak	13,498	Beaverdam Creek	2,000	6,100
Vermont	Mount Mansfield	4,303	Lake Champlain	95	1,000
Virginia	Mount Rogers	5,729	Atlantic Ocean	(1)	950
Washington	Mount Rainier	14,410	Pacific Ocean	(1)	1,700
West Virginia	Spruce Knob	4,860	Potomac River	240	1,500
Wisconsin	Tim's Hill, Price County	1,953	Lake Michigan	581	1,050
Wyoming	Gannett Peak	13,785	Belle Fourche River	3,100	6,700
Other areas:					
Puerto Rico	Cerro de Punta	4,389	Atlantic Ocean	(1)	2,200
American Samoa	Lata	3,056	Pacific Ocean	(1)	1,500
Canal Zone	Cerro Galera	1,205	Atlantic Ocean	(1)	100
Guam	Mount Lamlam	1,329	Pacific Ocean	(1)	650
Virgin Islands	Crown Mountain	1,556	Atlantic Ocean	(1)	750

¹ Sea level.² "Sec." denotes section; "T", township; "R", range; "N", north; "W", west; "S", south.

Source: Dept. of the Interior, Geological Survey; unpublished data.

Altitudes—Storms

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No. 234. ALTITUDES OF NAMED SUMMITS

[In feet. Comprises peaks 14,000 feet or over, above sea level]

SUMMIT	State	Rank	Altitude	SUMMIT	State	Rank	Altitude
Mt. McKinley	Alaska	1	20,320	Mt. Sill	Calif.	44	14,162
North Peak	Alaska	2	19,470	El Diente Peak	Colo.	45	14,159
Mt. St. Elias	Alaska	3	18,008	Maroon Peak	Colo.	46	14,156
Mt. Foraker	Alaska	4	17,400	Tebquache Mtn.	Colo.	47	14,155
Mt. Blackburn	Alaska	5	16,528	Mt. Oxford	Colo.	48	14,153
Mt. Bona	Alaska	6	16,421	Mt. Snelles	Colo.	49	14,150
Mt. Sanford	Alaska	7	16,208	Point Success	Wash.	50	14,150
Mt. Vancouver	Alaska	8	15,700	Mt. Democrat	Colo.	51	14,142
Mt. Fairweather	Alaska	9	15,300	Liberty Cap	Wash.	52	14,133
Mt. Hubbard	Alaska	10	14,950	Capital Peak	Colo.	53	14,130
Mt. Bear	Alaska	11	14,850	Mt. Lindsey	Colo.	54	14,125
Mt. Hunter	Alaska	12	14,573	Pikes Peak	Colo.	55	14,110
Browne Tower	Alaska	13	14,530	Kit Carson Mtn.	Colo.	56	14,100
Mt. Alverstone	Alaska	14	14,500	Snowmass Mtn.	Colo.	57	14,092
Mt. Whitney	Calif.	15	14,495	Windom Mtn.	Colo.	58	14,091
Mt. Elbert	Colo.	16	14,431	Mt. Eoitis	Colo.	59	14,080
Mt. Harvard	Colo.	17	14,420	Mt. Russell	Calif.	60	14,086
Mt. Rainier	Wash.	18	14,410	Humboldt Peak	Colo.	61	14,075
Mt. Massive	Colo.	19	14,404	Columbia Peak	Colo.	62	14,073
Mt. Williamson	Calif.	20	14,375	Mt. Augusta	Alaska	63	14,070
La Plata Peak	Colo.	21	14,340	Culebra Peak	Colo.	64	14,069
Blanca Peak	Colo.	22	14,317	Missouri Mtn.	Colo.	65	14,067
Uncompahgre Peak	Colo.	23	14,314	Mt. Bierstadt	Colo.	66	14,060
Crestone Peak	Colo.	24	14,291	Stewart Peak	Colo.	67	14,060
Mt. Lincoln	Colo.	25	14,284	Sunlight Peak	Colo.	68	14,060
Grays Peak	Colo.	26	14,270	Split Mtn.	Calif.	69	14,058
Mt. Antero	Colo.	27	14,269	Redcloud Peak	Colo.	70	14,050
Torreys Peak	Colo.	28	14,267	Handies Peak	Colo.	71	14,048
Castle Peak	Colo.	29	14,265	Little Bear Peak	Colo.	72	14,040
Mt. Evans	Colo.	30	14,264	Middle Palisade	Calif.	73	14,040
Longs Peak	Colo.	31	14,255	Mount Langley	Calif.	74	14,028
Quandry Peak	Colo.	32	14,252	Mt. Tyndall	Calif.	75	14,018
Mount Wilson	Colo.	33	14,246	Pyramid Peak	Colo.	76	14,018
White Mountain	Calif.	34	14,246	Wetterhorn Peak	Colo.	77	14,017
North Palisade	Calif.	35	14,242	Wilson Peak	Colo.	78	14,017
Mt. Cameron	Colo.	36	14,238	Sunshine Peak	Colo.	79	14,016
Shavano Peak	Colo.	37	14,229	Mt. Muir	Calif.	80	14,015
Mt. Belford	Colo.	38	14,197	North Maroon Peak	Colo.	81	14,014
Mt. Princeton	Colo.	39	14,197	San Luis Peak	Colo.	82	14,014
Mt. Yale	Colo.	40	14,196	Mt. Sherman	Colo.	83	14,007
Crestone Needles	Colo.	41	14,191	Mt. Wrangell	Alaska	84	14,006
Mt. Bross	Colo.	42	14,169	Huron Peak	Colo.	85	14,005
Mt. Shasta	Calif.	43	14,162				

Source: Dept. of the Interior, Geological Survey; unpublished data.

No. 235. TORNADOES, FLOODS, AND TROPICAL CYCLONES: 1931 TO 1963

[Figures for tornadoes include Alaska and Hawaii]

PERIOD OR YEAR	TORNADOES			FLOODS		NORTH ATLANTIC TROPICAL CYCLONES AND HURRICANES ¹		
	Number	Lives lost		Number with property loss of \$500,000 and over	Lives lost	Property loss (mil. dol.)	Number reaching U.S. coast	Hurricanes only
		Total	Most in a single tornado during period					
1931-35	830	909	37	15	368	187	21	12
1936-40	787	916	216	17	607	879	21	8
1941-45	727	980	100	39	346	605	20	11
1946-50	902	813	169	50	306	843	22	12
1951-55	2,087	940	116	80	502	2,507	18	9
1956-60	3,168	445	44	80	228	877	20	7
1956	532	83	25	25	42	65	2	1
1957	864	191	44	29	82	360	5	1
1958	565	66	19	9	47	218	1	0
1959	589	58	21	5	25	141	7	3
1960	618	47	16	12	32	93	5	2
1961	683	51	16	22	52	154	3	2
1962	658	28	17	10	19	75	1	0
1963	461	31	5	16	n.a.	n.a.	1	1

n.a. Not available.

¹ Tropical cyclones have maximum winds of 39 to 73 miles per hour; hurricanes have maximum winds of 74 miles per hour or higher.

Source: Dept. of Commerce, Weather Bureau; *Climatological Data*, annual national summary issues.

No. 236. ESTIMATED WATER USE: 1900 TO 1962, AND PROJECTIONS TO 1980

[In billions of gallons daily average. In preparing these projections, it was estimated that the population residing in the United States (conterminous area) would grow from 176.2 million in 1959 to 230.8 million in 1980, and that the index of industrial production would rise from approximately 152 to 330 in the same period. See also *Historical Statistics, Colonial Times to 1957*, series J 91-102.]

YEAR	TOTAL WATER USE		IRRIGATION ¹		PUBLIC WATER UTILITIES		SELF-SUPPLIED USES					
							Rural domestic ²		Industrial and miscellaneous ³		Steam electric utilities	
	Total	Ground	Total	Ground	Total	Ground	Total	Ground	Total	Ground	Total	Ground
1900	40.19	7.28	20.19	2.22	3.00	1.05	2.00	1.60	10.00	2.40	5.00	0.01
1910	66.44	11.68	39.04	5.27	4.70	1.49	2.20	1.76	14.00	3.15	6.50	0.01
1920	91.54	15.78	55.94	8.17	6.00	1.79	2.40	1.94	18.00	3.87	9.20	0.01
1930	110.50	18.18	60.20	9.09	8.00	2.30	2.00	2.40	21.00	4.37	18.40	0.02
1940	136.43	22.56	71.03	11.22	10.10	2.82	3.10	2.04	29.00	5.86	23.20	0.02
1945	170.46	28.33	83.06	14.12	12.00	3.28	3.20	2.78	41.00	8.12	31.20	0.03
1950	202.76	35.19	100.00	19.80	14.10	3.78	4.60	4.09	38.10	7.47	45.90	0.05
1955	263.80	47.70	116.30	29.08	16.30	4.27	5.40	4.91	49.20	9.45	76.60	0.08
1960	322.99	58.17	135.00	35.24	22.00	5.68	6.00	5.58	61.20	11.57	98.70	0.10
1962	342.42	61.42	140.24	37.20	23.20	5.92	6.20	5.80	66.00	12.39	106.78	0.11
1965	371.70	66.30	148.10	40.14	25.00	6.28	6.50	6.14	73.20	13.62	118.90	0.12
1970	411.20	73.27	159.00	44.20	27.00	6.64	6.90	6.56	86.00	15.74	132.30	0.13
1975	449.70	79.37	169.76	47.52	29.86	7.15	7.20	6.85	98.40	17.71	144.60	0.14
1980	494.10	84.94	178.00	50.02	32.00	7.36	7.40	7.04	115.00	20.36	161.70	0.16

¹ Total take, including delivery losses but not including reservoir evaporation.

² Rural farm and nonfarm household and garden use, and water for farm stock and dairies.

³ Manufacturing and mineral industries, rural commercial industries, air conditioning, resorts, hotels, motels, military and other State and Federal agencies, and other miscellaneous uses.

Source: Dept. of Commerce, Business and Defense Services Administration; unpublished data.

No. 237. INVENTORY OF PUBLIC WATER SUPPLIES FOR COMMUNITY WATER SYSTEMS: 1961

[Includes only systems serving a population of 25,000 or more. Estimated total number of public water systems in the United States (conterminous area) is 21,000 systems serving a population of approximately 130 million. An estimated 16.0 percent of water used by manufacturing industries is supplied by public water systems]

ITEM	Total	COMMUNITIES HAVING A POPULATION SERVED OF—				
		500,000 or more	250,000 to 499,999	100,000 to 249,999	50,000 to 99,999	25,000 to 49,999
Communities and districts—number	804	40	35	132	225	372
1950 Census population—1,000	77,881	33,343	7,274	12,751	12,902	11,551
Estimated population served—1,000	103,665	52,481	11,061	17,641	11,888	10,594
Ownership of public water supply—number	804	40	35	132	225	372
Municipal or district—public—number	656	35	25	100	187	300
Private—number	148	5	10	23	38	72
Average output of water—mil. gal. daily	14,736	7,456	1,577	2,505	1,095	1,503
Water used, maximum month ¹ —mil. gal.	608,595	307,949	65,120	103,461	69,988	62,077
Water used, maximum day ¹ —mil. gal.	24,142	12,216	2,583	4,105	2,776	2,462
Impounded storage—mil. gal.	6,611,958	2,615,548	591,929	1,398,614	401,600	1,604,207
Transmission capacity, maximum						
Dependable yield, ground water	33,604	20,939	3,336	4,187	2,989	2,153
Raw water storage—mil. gal.	6,786	1,131	922	1,830	1,478	1,425
Raw water pumping capacity—mil. gal. daily	289,517	232,176	50,594	1,516	2,575	2,656
Distribution storage:						
Pumped to mains—mil. gal.	24,559	12,305	2,016	4,460	2,921	2,848
Elevated—mil. gal.	71,125	61,728	1,497	3,650	2,202	2,048
Number of services ¹ —1,000	20,795	8,442	2,204	3,903	3,197	2,989
Number of meters ¹ —1,000	18,284	6,723	2,163	3,578	2,999	2,821

¹ Approximately 3 percent estimated.

Source: Dept. of Commerce, Business and Defense Services Administration. Compiled from unpublished data provided by Dept. of Health, Education, and Welfare, Public Health Service.

Air Pollution

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No. 238. AIR POLLUTION—NATIONAL AIR SAMPLING LEVELS, SELECTED CITIES: 1962

[Air pollution is defined as the presence in the air of substances put there by the activities of man, in concentrations sufficient to interfere with comfort, safety, or health or with use and enjoyment of property. Data represent values of samples taken nationally on a biweekly basis by the National Air Sampling Network. See text, p. 166]

STATION	SUSPENDED PARTICULATE MATTER ¹ (micrograms per cubic meter)			BENZENE-SOLUBLE ORGANIC MATTER ¹ (micrograms per cubic meter)			RADIOACTIVITY ² (micromicrocuries per cubic meter)			
	Min.	Max.	Arith. avg.	Min.	Max.	Arith. avg.	Min.	Max.	Arith. avg.	
Alabama.....	Birmingham.....	48	246	139	2.7	35.4	11.5	0.3	15.7	7.0
Alaska.....	Anchorage.....	32	165	75	1.4	19.4	6.1	0.2	11.1	4.1
Arizona.....	Phoenix.....	87	466	240	4.6	50.2	19.4	0.7	21.6	9.7
Arkansas.....	Little Rock.....	25	399	85	2.2	24.1	6.2	0.2	15.6	6.5
California.....	Los Angeles.....	34	332	163	1.7	66.2	22.2	1.2	20.1	6.6
	Oakland.....	25	206	96	1.7	26.0	9.2	0.7	16.8	5.1
	San Diego.....	35	240	102	1.0	35.8	8.8	0.9	18.7	6.6
	San Francisco.....	17	175	64	2.4	33.5	7.5	0.6	25.5	5.8
Colorado.....	Denver.....	43	169	97	2.8	17.7	8.2	1.2	17.0	5.3
Connecticut.....	Hartford.....	63	293	126	3.3	39.2	8.8	0.3	10.3	5.2
	New Haven.....	44	156	83	3.8	17.2	7.9	0.9	11.8	5.6
Delaware.....	Wilmington.....	80	354	143	3.3	62.1	10.5	0.8	12.8	4.9
Dist. of Columbia.....	Washington.....	51	168	93	4.4	28.5	10.0	1.7	14.0	6.3
Florida.....	Tampa.....	41	180	78	2.3	15.9	6.6	0.6	18.3	7.0
Georgia.....	Atlanta.....	44	173	90	3.0	27.3	7.4	0.9	18.2	6.0
Hawaii.....	Honolulu.....	24	82	41	0.7	11.9	3.1	0.7	11.1	4.0
Idaho.....	Boise.....	36	166	92	2.6	28.1	9.7	2.3	19.0	7.5
Illinois.....	Chicago.....	57	213	123	3.2	22.1	9.4	1.1	12.7	5.6
Indiana.....	Indianapolis.....	36	232	140	4.6	24.0	11.5	1.0	12.7	6.3
Iowa.....	Des Moines.....	41	291	128	2.1	32.6	9.7	0.9	13.1	5.1
Kansas.....	Wichita.....	32	167	95	2.8	12.3	5.9	1.7	16.2	7.3
Kentucky.....	Louisville.....	73	184	128	3.8	20.4	8.4	1.8	13.8	5.6
Louisiana.....	New Orleans.....	44	189	81	1.2	30.9	10.2	0.7	10.4	5.9
Maine.....	Portland.....	25	150	91	2.3	16.5	8.3	0.9	15.8	5.4
Maryland.....	Baltimore.....	80	329	137	1.2	33.1	11.5	0.6	16.7	5.7
Massachusetts.....	Boston.....	67	504	144	6.0	52.6	14.6	1.0	15.2	6.2
Michigan.....	Detroit.....	47	350	118	4.0	37.3	9.3	0.7	12.1	4.8
Minnesota.....	Minneapolis.....	37	167	87	1.5	25.7	7.0	1.8	12.3	5.3
	St. Paul.....	37	255	100	3.4	16.0	7.8	1.4	13.8	6.0
Mississippi.....	Jackson.....	34	153	68	2.2	23.6	6.3	0.8	14.2	6.4
Missouri.....	Kansas City.....	49	328	140	4.0	24.2	9.3	1.4	18.0	7.0
	St. Louis.....	71	267	137	4.4	32.4	12.8	1.9	12.4	6.1
Montana.....	Helena.....	14	108	53	0.7	5.3	2.5	2.4	12.0	7.2
Nebraska.....	Omaha.....	36	206	107	2.8	24.3	8.0	1.9	19.6	7.2
Nevada.....	Las Vegas.....	84	982	261	1.7	27.8	11.2	2.8	26.0	12.8
New Jersey.....	Newark.....	40	318	113	3.0	34.9	9.8	1.5	10.0	5.0
New Mexico.....	Albuquerque.....	65	366	164	0.9	22.9	8.2	1.9	16.0	7.4
New York.....	Buffalo.....	72	420	165	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
	New York.....	117	354	170	9.0	42.8	15.2	1.1	13.0	6.4
	Rochester.....	31	167	90	1.6	13.0	5.2	0.6	14.1	5.4
North Carolina.....	Charlotte.....	44	190	104	3.5	30.0	11.7	1.2	12.1	7.0
North Dakota.....	Bismarck.....	19	269	87	1.4	20.3	4.9	1.9	29.8	7.1
Ohio.....	Cincinnati.....	51	294	130	4.0	37.0	10.0	1.9	14.8	5.3
	Cleveland.....	36	212	121	3.8	17.6	9.2	1.4	14.0	6.3
	Columbus.....	45	211	106	2.7	32.3	7.3	1.6	20.5	7.1
Oklahoma.....	Oklahoma City.....	36	150	78	3.1	11.1	5.3	0.4	13.4	6.8
Oregon.....	Portland.....	17	609	143	1.3	93.0	15.9	0.8	16.2	4.8
Pennsylvania.....	Philadelphia.....	74	255	158	4.4	38.7	11.8	0.6	11.9	5.7
	Pittsburgh.....	72	432	172	4.9	66.4	14.0	1.7	12.5	6.1
Rhode Island.....	Providence.....	48	176	98	2.4	12.8	7.0	0.5	10.7	4.9
South Carolina.....	Columbia.....	48	152	88	2.7	27.4	10.2	1.2	13.7	7.5
South Dakota.....	Sioux Falls.....	25	239	90	1.7	9.1	5.0	0.6	11.1	5.5
Tennessee.....	Memphis.....	50	158	105	4.0	17.3	8.1	0.7	12.8	6.7
	Nashville.....	76	319	154	0.7	58.3	18.9	0.7	20.6	7.3
Texas.....	Dallas.....	41	289	98	3.3	42.8	10.7	0.7	21.0	7.9
	Houston.....	49	189	84	2.6	12.4	6.2	0.4	69.5	8.3
	San Antonio.....	30	148	65	1.7	16.5	5.0	0.5	14.7	4.2
Utah.....	Salt Lake City.....	54	259	151	2.4	39.1	13.1	2.6	18.6	8.8
Vermont.....	Burlington.....	18	132	60	0.8	9.6	3.3	0.9	11.3	5.4
Virginia.....	Norfolk.....	22	166	101	3.7	18.1	8.4	0.4	14.9	7.0
Washington.....	Seattle.....	33	200	73	4.3	29.1	9.7	0.5	13.5	3.9
West Virginia.....	Charleston.....	30	514	219	1.8	25.8	8.9	0.4	11.1	5.9
Wisconsin.....	Milwaukee.....	39	231	104	3.5	20.3	7.3	1.4	18.5	4.7
Wyoming.....	Cheyenne.....	7	83	38	0.8	7.1	2.7	1.8	104.6	12.6
Puerto Rico.....	San Juan.....	68	185	99	2.3	16.4	6.8	0.6	10.5	4.3

n.a. Not available.

¹ For definition, see headnote, table 239.

² Radioactivity associated with suspended particulate matter as measured by Beta radiation. High values as compared with 1960 (see table 230, *Statistical Abstract, 1962*) are result of resumption of nuclear testing in 1961.

Source: Dept. of Health, Education, and Welfare, Public Health Service; annual report, *Air Quality Data-1962*.

Area, Geography, and Climate

No. 239. SUSPENDED PARTICULATE MATTER LEVELS, BY URBAN POPULATION GROUPS: 1957-62

[In micrograms per cubic meter. Based on approximately 18,500 air samples taken in 215 cities. Suspended particulate matter consists of particles of smoke, dust, and fumes and droplets of viscous liquid remaining in the air for varying periods of time and ranging from less than 1 micron (1/25,000 inch) to 100 microns. Benzene-soluble organic matter is particulate matter soluble in benzene]

POPULATION GROUP	Number of cities	SUSPENDED PARTICULATE MATTER			BENZENE-SOLUBLE ORGANIC MATTER		
		Minimum	Maximum	Arith- metic average	Minimum	Maximum	Arith- metic average
United States.....	215	6	1,706	115	(¹)	123.9	9.5
10,000 to 25,000.....	7	11	466	81	(¹)	86.3	5.9
25,000 to 50,000.....	9	7	487	86	(¹)	107.0	6.3
50,000 to 100,000.....	69	6	982	112	0.2	104.0	9.0
100,000 to 400,000.....	95	10	1,706	115	(¹)	123.9	9.6
400,000 to 700,000.....	23	15	977	127	0.8	109.6	10.7
700,000 to 1,000,000.....	7	14	658	131	0.8	87.5	10.9
1,000,000 to 3,000,000.....	3	34	594	185	1.7	69.4	15.1
3,000,000 or more.....	2	57	714	182	3.2	56.0	14.2

¹ Less than minimum detectable amount.

Source: Dept. of Health, Education, and Welfare, Public Health Service; *Air Pollution Measurements of the National Air Sampling Network, 1957-1961*, and annual report, *Air Quality Data-1962*.

No. 240. SUSPENDED PARTICULATE MATTER LEVELS, BY NONURBAN TOPOGRAPHIC CLASS: 1957-62

[In micrograms per cubic meter. Based on 3,904 air samples taken at nonurban sampling stations. See headnote, table 239]

TOPOGRAPHIC CLASS	Number of stations	SUSPENDED PARTICULATE MATTER			BENZENE-SOLUBLE ORGANIC MATTER		
		Minimum	Maximum	Arith- metic average	Minimum	Maximum	Arith- metic average
United States.....	1 50	1	461	36	(²)	63.4	1.9
Atlantic coast.....	5	3	198	33	(²)	19.9	2.0
Desert.....	5	1	403	33	(²)	9.6	1.5
Farmland.....	12	2	461	41	(²)	23.5	2.3
Forest.....	7	2	170	27	(²)	17.3	1.7
Great Lakes coast.....	5	6	295	41	(²)	7.4	1.9
Gulf coast.....	3	3	201	34	(²)	12.2	2.0
Mountain.....	8	1	225	28	(²)	12.1	1.6
Pacific coast.....	5	6	314	54	(²)	63.4	2.4

¹ Data for all 50 stations not available for all years.

² Less than minimum detectable amount.

Source: Dept. of Health, Education, and Welfare, Public Health Service; *Air Pollution Measurements of the National Air Sampling Network, 1957-1961*, and annual report, *Air Quality Data-1962*.

Radioactivity

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No. 241. AVERAGE BETA RADIOACTIVITY CONCENTRATIONS IN AIR—STATES: 1959 TO 1962

[In micromicrocuries per cubic meter. Values based on one air sampling station per State, unless otherwise noted. States not shown had no air sampling stations during period covered]

STATE	1959	1960	1961	1962
Alaska.....	1 2 2.19	1 2 0.11	2 1.4	8 2.5
Arizona.....	5.08	1 0.21	3.9	7.0
Arkansas.....	3.20	1 0.12	5.5	5.4
California.....	4 2.82	1 4 0.13	4 3.5	4 5.6
Colorado.....	3.75	1 0.17	3.4	7.9
Connecticut.....	2.56	1 0.12	2.7	4.4
District of Columbia.....	3.10	1 0.15	3.2	4.6
Florida.....	3.22	1 0.14	5.2	4 6.2
Georgia.....	3.18	1 0.15	4.0	4.4
Hawaii.....	1.88	1 0.13	1.0	2.3
Idaho.....	5 5.29	6 0.19	4.1	6.4
Illinois.....	3.05	1 0.16	3.5	4.4
Indiana.....	2.34	1 0.13	2.9	4.7
Iowa.....	2.70	1 0.13	3.4	4.2
Kansas.....	2.34	1 0.13	3.6	5.0
Kentucky.....			7 9.2	5.0
Louisiana.....	3.11	1 0.15	4.8	5.4
Maine.....			5.0	4.4
Maryland.....	6 2.74	1 0.15	2.9	5.4
Massachusetts.....	2.02	1 0.11	1.7	3.9
Michigan.....	3.22	1 0.13	4.7	6.3
Minnesota.....	2.31	1 0.12	3.2	3.8
Mississippi.....	9 3.52	1 0.17	6.2	4 6.3
Missouri.....	2.48	1 0.13	4.8	4.8
Montana.....	2.21	1 0.13	2.7	6.2
Nebraska.....			10 8.0	4.8
New Jersey.....	2.77	1 0.14	3.1	4.3
New Mexico.....	4.60	1 0.18	3.5	7.1
New York.....	2.79	1 0.12	2.8	4 5.1
North Carolina.....	3.49	1 0.17	3.3	5.8
North Dakota.....			7 5.2	4.9
Ohio.....			7 9.1	6.6
Oklahoma.....	4 2.43	1 4 0.12	2.8	4 4.5
Oregon.....	2.52	1 0.13	2.6	5.2
Pennsylvania.....	3.45	1 0.15	2.4	5.7
Rhode Island.....	11 1.37	1 0.13	2.5	4.9
South Carolina.....	2.92	1 0.14	4.5	4.3
South Dakota.....	3.07	1 0.16	3.4	5.3
Tennessee.....			7 16.8	5.7
Texas.....	4 3.38	1 4 0.19	2 3.0	4 7.2
Utah.....	3.58	1 0.16	2.8	10.8
Virginia.....	2.61	1 0.12	2.8	4.1
Washington.....	1.89	1 0.11	1.1	2.7
Wisconsin.....			3.6	5.2
Wyoming.....	2.91	1 0.14	2.7	7.9
Puerto Rico.....			12 2.6	2.6

¹ Less than value shown.

² 3 stations.

³ 10 stations.

⁴ 2 stations.

⁵ First 8 months.

⁶ Last 10 months.

⁷ Last 4 months.

⁸ Excludes data for June-August.

⁹ Excludes data for September and October.

¹⁰ Last 2 months.

¹¹ Last 9 months.

¹² Last 3 months.

Source: Dept. of Health, Education, and Welfare, Public Health Service; *Radiological Health Data*. Monthly.

No. 242. BETA RADIOACTIVITY CONCENTRATIONS IN AIR, BY MONTH: 1959 TO 1962

[In micromicrocuries per cubic meter]

MONTH	1959			1960			1961			1962		
	Minimum	Maximum	Average									
January.....	3.41	14.08	6.56	10.10	0.27	10.13	10.1	0.44	10.1	10.1	39	6.7
February.....	2.26	12.88	5.66	10.10	0.38	10.16	10.1	0.70	10.1	10.1	21	5.7
March.....	2.06	13.14	6.39	10.10	0.67	10.21	10.1	0.46	10.1	10.1	25	5.5
April.....	3.00	10.16	6.34	10.10	0.38	10.19	10.1	0.50	10.1	10.1	21	4.8
May.....	2.60	10.49	4.81	10.10	0.36	10.19	10.1	0.57	10.1	10.1	31	3.7
June.....	1.12	4.33	2.45	10.10	0.24	10.16	10.1	0.54	10.1	10.1	59	3.1
July.....	0.39	1.76	0.97	10.10	0.19	10.13	10.1	0.73	10.1	10.1	505	3.4
August.....	10.14	0.96	0.41	0.08	10.17	10.11	10.1	0.31	10.1	10.1	18	1.7
September.....	10.11	10.33	10.22	10.10	0.16	10.11	10.1	800	12.5	10.1	39	3.7
October.....	10.10	10.24	10.14	10.10	0.19	10.10	10.1	71	8.4	10.1	72	5.2
November.....	10.10	10.20	10.14	0.06	10.14	10.10	10.1	65	8.5	10.1	575	10.8
December.....	10.10	10.23	10.13	0.07	10.13	10.10	10.1	40	6.5	10.1	48	5.8

¹ Less than value shown.Source: Dept. of Health, Education, and Welfare, Public Health Service; *Radiological Health Data*. Monthly.

No. 243. GASEOUS AIR POLLUTANT LEVELS, SELECTED CITIES: 1963

[Concentration in parts per million. Concentration of gaseous contaminants are continuously measured in the indicated cities in order to provide basic data on the nature and extent of urban area pollution]

CITY	SULFUR DIOXIDE				NITRIC OXIDE				NITROGEN DIOXIDE			
	Maximum day	Minimum month	Maximum month	Yearly average	Maximum day	Minimum month	Maximum month	Yearly average	Maximum day	Minimum month	Maximum month	Yearly average
Chicago.....	0.79	0.05	0.35	0.15	0.20	0.07	0.14	0.10	0.13	0.03	0.06	0.04
Cincinnati.....	0.11	0.01	0.05	0.03	0.14	0.02	0.06	0.03	0.08	0.02	0.04	0.03
New Orleans.....	0.05	(1)	0.02	0.01	0.13	0.01	0.03	0.02	0.05	0.01	0.02	0.02
Philadelphia.....	0.46	0.02	0.15	0.06	0.75	0.01	0.14	0.05	0.24	0.03	0.06	0.04
San Francisco.....	0.07	(1)	0.03	0.01	0.32	0.06	0.11	0.09	0.13	0.04	0.06	0.05
Washington, D.C.....	0.25	(1)	0.11	0.04	0.28	0.01	0.08	0.04	0.09	0.03	0.04	0.04
CITY	CARBON MONOXIDE				TOTAL OXIDANTS				TOTAL HYDROCARBONS			
	Maximum day	Minimum month	Maximum month	Yearly average	Maximum day	Minimum month	Maximum month	Yearly average	Maximum day	Minimum month	Maximum month	Yearly average
Chicago.....	19	7	10	8	0.03	(1)	0.01	0.01	6	2	4	3
Cincinnati.....	16	4	10	7	0.09	(1)	0.04	0.01	8	3	4	3
New Orleans.....	13	4	5	4	0.06	0.01	0.02	0.02	5	2	3	3
Philadelphia.....	15	8	9	9	0.05	(1)	0.02	0.01	6	2	4	2
San Francisco.....	14	5	7	6	0.08	0.01	0.04	0.02	6	2	3	3
Washington, D.C.....	19	2	10	7	0.07	(1)	0.03	0.01	7	2	4	3

¹ Less than 0.01 part per million.

Source: Dept. of Health, Education, and Welfare, Public Health Service; unpublished data.

Elevation—Freeze

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No. 244. GROUND ELEVATION OF WEATHER STATIONS AND MEAN, LATEST SPRING AND EARLIEST FALL DATES OF OCCURRENCE OF FREEZE (32°)—SELECTED CITIES

[Date of freeze based on 30-year period, 1921 to 1950]

STATION	Ground elevation (feet)	OCCURRENCE OF FREEZE			
		Spring date		Fall date	
		Mean	Latest	Mean	Earliest
Alabama.....	Mobile.....	10	Feb. 17	Mar. 12	Dec. 12
Alaska.....	Juneau.....	15	April. 27	June 8	Oct. 19
Arizona.....	Phoenix.....	1,083	Jan. 27	Mar. 2	Dec. 11
Arkansas.....	Little Rock.....	257	Mar. 16	Apr. 13	Nov. 15
California.....	Los Angeles.....	312	-----	Jan. 21	-----
	Sacramento.....	25	Jan. 24	Mar. 14	Dec. 11
	San Francisco.....	52	-----	Jan. 21	-----
Colorado.....	Denver.....	5,221	May 2	May 28	Oct. 14
Connecticut.....	Hartford.....	160	April. 22	May 10	Oct. 19
Delaware.....	Wilmington.....	73	April. 18	May 9	Oct. 26
Dist. of Col.....	Washington.....	72	April. 10	May 12	Oct. 28
Florida.....	Jacksonville.....	18	Feb. 6	May 14	Dec. 16
	Miami.....	8	-----	Feb. 6	Nov. 9
Georgia.....	Atlanta.....	1,054	Mar. 20	April. 15	Nov. 19
Hawaii.....	Honolulu.....	12	-----	-----	Oct. 24
Idaho.....	Boise.....	2,842	April. 29	May 23	Oct. 16
Illinois.....	Chicago.....	610	April. 19	May 13	Oct. 28
	Peoria.....	654	April. 22	May 25	Oct. 16
Indiana.....	Indianapolis.....	718	April. 17	May 11	Sept. 27
Iowa.....	Des Moines.....	807	April. 20	May 11	Oct. 19
Kansas.....	Wichita.....	1,321	April. 5	April. 21	Sept. 23
Kentucky.....	Louisville.....	457	April. 1	April. 19	Oct. 7
Louisiana.....	New Orleans.....	9	Feb. 15	Mar. 20	Dec. 3
Maine.....	Portland.....	61	April. 29	May 30	Sept. 17
Maryland.....	Baltimore.....	146	March 28	April. 16	Nov. 17
Massachusetts.....	Boston.....	15	April. 16	May 19	Oct. 25
Michigan.....	Detroit.....	619	April. 25	May 12	Sept. 20
	Sault Ste. Marie.....	721	May 18	June 8	Oct. 3
Minnesota.....	Duluth.....	1,182	May 13	June 1	Sept. 13
	Minneapolis.....	830	April. 30	May 24	Oct. 13
Mississippi.....	Jackson.....	305	March 10	April. 13	Nov. 13
Missouri.....	Kansas City.....	741	April. 5	April. 17	Oct. 31
	St. Louis.....	465	April. 2	May 2	Oct. 8
Montana.....	Great Falls.....	3,664	May 14	June 8	Sept. 7
Nebraska.....	Omaha.....	978	April. 14	May 11	Sept. 24
Nevada.....	Reno.....	4,397	May 14	June 25	Oct. 2
New Hampshire.....	Concord.....	339	May 11	May 26	Sept. 30
New Jersey.....	Atlantic City.....	8	April. 10	April. 24	Nov. 5
New Mexico.....	Albuquerque.....	5,310	April. 16	May 18	Oct. 29
New York.....	Albany.....	19	April. 27	May 20	Oct. 13
	Buffalo.....	693	April. 30	May 24	Sept. 25
	New York.....	10	April. 7	April. 24	Nov. 12
North Carolina.....	Charlotte.....	727	March 21	April. 16	Oct. 15
	Raleigh.....	400	March 24	April. 20	Nov. 16
North Dakota.....	Bismarck.....	1,650	May 11	May 30	Sept. 6
Ohio.....	Cincinnati.....	761	April. 15	May 25	Sept. 28
	Cleveland.....	787	April. 21	May 14	Sept. 29
	Columbus.....	815	April. 17	May 9	Oct. 7
Oklahoma.....	Oklahoma City.....	1,254	March 28	April. 17	Oct. 23
Oregon.....	Portland.....	30	Feb. 25	May 4	Dec. 1
Pennsylvania.....	Philadelphia.....	26	March 30	April. 20	Nov. 17
	Pittsburgh.....	749	April. 16	May 4	Nov. 3
Rhode Island.....	Providence.....	55	April. 13	April. 24	Oct. 27
South Carolina.....	Columbia.....	217	March 14	April. 13	Nov. 21
South Dakota.....	Sioux Falls.....	1,420	May 5	May 29	Oct. 3
Tennessee.....	Memphis.....	263	March 20	April. 15	Nov. 12
	Nashville.....	577	March 28	April. 19	Nov. 7
Texas.....	Dallas.....	487	March 18	April. 15	Oct. 27
	El Paso.....	3,920	March 13	April. 11	Oct. 31
	Houston.....	41	Feb. 5	March 26	Oct. 25
Utah.....	Salt Lake City.....	4,260	April. 12	April. 30	Nov. 1
Vermont.....	Burlington.....	331	May 8	May 23	Sept. 13
Virginia.....	Norfolk.....	26	March 18	April. 14	Nov. 27
	Richmond.....	162	April. 2	April. 20	Nov. 8
Washington.....	Seattle.....	14	Feb. 23	April. 3	Oct. 19
	Spokane.....	2,357	April. 20	May 16	Sept. 18
West Virginia.....	Charleston.....	950	April. 18	May 11	Oct. 28
Wisconsin.....	Milwaukee.....	672	April. 20	May 9	Sept. 25
Wyoming.....	Cheyenne.....	6,131	May 20	June 18	Sept. 5
Puerto Rico.....	San Juan.....	47	-----	-----	-----

Source: Dept. of Commerce, Weather Bureau; unpublished data.

Area, Geography, and Climate

No. 245. NORMAL MONTHLY AVERAGE TEMPERATURE—SELECTED CITIES

[In Fahrenheit degrees. Airport data unless otherwise noted. Based on standard 30-year period, 1931 to 1960.
See *Historical Statistics, Colonial Times to 1957*, series J 109-135 and J 163-265, for related data]

STATION	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Ala.— Mobile	53.0	55.2	60.3	67.6	75.6	81.5	82.6	82.1	77.9	69.9	58.9	54.1	68.2
Alaska— Juneau	25.1	26.8	30.4	38.0	45.6	52.3	55.3	54.1	48.9	41.6	34.3	28.4	40.1
Ariz.— Phoenix	49.7	53.5	59.0	67.2	75.0	83.6	89.8	87.5	82.8	70.7	58.1	51.6	69.0
Ark.— Little Rock	40.6	44.4	51.8	62.4	70.5	78.9	81.9	81.3	74.3	63.1	49.5	41.9	61.7
Calif.— Los Angeles ¹	55.8	57.1	59.4	61.8	64.8	68.0	73.0	73.1	71.9	67.4	62.7	58.2	64.4
Sacramento ¹	46.4	50.5	54.2	59.8	64.2	70.0	74.0	72.8	71.4	63.7	54.3	47.3	60.7
San Francisco ¹	50.7	53.0	54.7	55.7	57.4	59.1	58.8	59.4	52.0	61.4	57.4	52.5	56.8
Colo.— Denver	28.5	31.5	36.4	46.4	56.2	65.5	72.9	71.5	65.0	51.4	37.7	31.6	49.5
Conn.— Hartford	27.4	28.5	36.7	48.2	59.1	67.9	72.8	70.8	63.0	52.9	41.8	30.2	49.9
Del.— Wilmington	33.4	33.8	41.3	52.1	62.7	71.4	76.0	74.3	67.6	56.6	45.4	35.1	54.1
D.C.— Washington	36.9	37.8	44.8	55.7	65.8	74.2	78.2	76.5	69.7	59.0	47.7	38.1	57.0
Fla.— Jacksonville	55.9	57.5	62.2	68.7	75.8	80.8	82.6	82.3	79.4	71.0	61.7	56.1	69.5
Miami	66.9	67.9	70.5	74.2	77.6	80.8	81.8	82.3	81.3	77.8	72.4	68.1	75.1
Ga.— Atlanta	44.8	46.5	51.9	61.0	68.6	76.8	78.8	78.4	73.1	62.7	51.1	44.1	61.6
Hawaii— Honolulu	72.5	72.4	72.8	74.2	75.9	77.9	78.8	79.4	79.2	78.2	75.9	73.6	75.9
Idaho— Boise	29.1	34.5	41.7	50.4	58.2	65.8	75.2	72.1	62.7	51.6	38.6	32.2	51.0
Ill.— Chicago	26.0	27.7	36.3	49.0	60.0	70.5	75.6	74.2	66.1	55.1	39.9	29.1	50.8
Ind.— Peoria	25.7	28.4	37.6	50.8	61.5	71.7	76.0	74.3	66.4	55.3	39.7	29.1	51.4
Iowa— Des Moines	29.1	31.1	38.9	50.8	61.4	71.1	75.2	73.7	66.5	55.4	40.9	31.1	52.1
Kans.— Wichita	32.0	24.4	35.5	50.4	62.3	72.4	77.5	75.0	66.4	54.2	37.4	25.5	50.2
Ky.— Louisville	35.0	35.8	43.3	54.8	64.4	73.4	77.6	76.2	69.5	57.9	44.7	36.3	55.7
La.— New Orleans ¹	55.5	57.7	62.1	68.9	75.7	81.1	82.6	82.5	78.9	71.1	61.0	56.6	60.5
Maine— Portland	21.8	22.8	31.4	42.5	53.0	62.1	68.1	66.8	58.7	48.6	38.1	25.8	45.0
Md.— Baltimore ¹	37.3	37.8	44.7	55.7	66.1	74.7	79.1	77.3	70.6	60.0	48.8	39.0	57.6
Mass.— Boston	29.9	30.3	37.7	47.9	58.8	67.8	73.7	71.7	65.3	55.0	44.9	33.3	51.4
Mich.— Detroit	26.9	27.2	34.8	47.6	59.0	69.7	74.4	72.8	65.1	53.8	40.4	29.9	50.1
Minn.— Sault Ste. Marie	15.8	15.7	23.8	38.0	49.6	59.0	64.6	64.0	55.8	46.3	38.3	20.9	40.6
Duluth	8.7	10.8	21.3	37.0	49.2	58.8	65.5	63.8	54.2	44.6	27.3	14.0	37.9
Minneapolis— St. Paul	12.4	15.7	27.4	44.3	57.3	66.8	72.3	70.0	60.4	48.9	31.2	18.1	43.7
Miss.— Jackson	48.0	50.7	56.4	64.4	72.5	79.4	81.6	81.3	76.2	66.5	54.9	49.0	65.1
Mo.— Kansas City	31.7	35.8	43.3	55.7	65.6	75.9	81.5	79.8	71.3	60.2	44.6	35.8	56.8
St. Louis ¹	31.9	34.7	42.6	54.9	65.2	74.0	79.1	76.8	69.5	58.4	44.1	34.8	55.3
Mont.— Great Falls	22.1	23.8	30.7	43.6	53.0	69.9	69.4	66.8	57.4	47.5	31.3	27.3	44.7
Nebr.— Omaha	22.3	26.5	36.9	51.7	63.0	73.1	78.5	76.2	66.9	55.7	38.9	28.2	51.5
Nev.— Reno	30.4	35.6	41.5	48.0	53.9	60.1	67.7	65.5	58.8	49.2	38.3	31.9	48.4
N.H.— Concord	21.2	22.7	31.7	43.8	55.5	64.5	69.6	67.4	59.3	48.7	37.6	25.0	45.6
N.J.— Atlantic City	34.8	34.7	41.1	51.0	61.3	70.0	75.1	73.7	67.2	57.2	46.7	36.6	54.1
N.Mex.— Albuquerque	35.0	39.9	45.8	55.7	65.1	74.9	78.5	76.2	70.0	58.0	43.6	37.0	56.6
N.Y.— Albany	22.7	23.7	33.0	46.2	57.9	67.3	72.1	70.0	61.6	50.8	39.1	26.5	47.6
Buffalo	24.5	24.1	31.5	43.5	54.8	64.8	69.8	68.4	61.4	50.8	39.1	27.7	46.7
New York ¹	32.2	33.4	40.5	51.4	62.4	71.4	76.8	75.1	68.5	58.3	47.0	36.2	54.5
N.C.— Charlotte	42.9	44.2	50.0	60.3	69.0	77.1	79.2	78.7	72.9	62.5	50.4	42.7	60.8
Raleigh	41.6	43.0	49.5	59.3	67.6	75.1	77.9	76.9	71.2	60.5	50.0	41.9	59.5
N.Dak.— Bismarck	9.9	13.5	26.2	43.5	55.9	64.5	71.7	69.3	58.7	46.7	28.9	17.8	42.2
Ohio— Cincinnati ¹	35.5	36.8	44.3	55.7	65.8	75.3	78.8	77.4	70.6	59.5	46.4	37.2	59.9
Cleveland	27.6	27.6	35.4	46.6	57.5	67.2	71.5	69.9	63.4	52.8	40.4	29.9	49.2
Columbus	29.9	31.1	38.9	50.8	61.5	70.8	74.8	73.2	65.9	54.2	41.2	31.5	52.0
Oklahoma— Oklahoma City	37.0	41.3	48.5	59.9	68.4	78.0	82.5	82.8	73.8	62.9	48.4	40.3	60.3
Oreg.— Portland ¹	40.2	43.8	47.7	53.5	59.1	63.4	68.6	68.1	64.5	56.5	47.2	43.1	54.6
Pa.— Philadelphia	32.3	33.2	41.0	52.0	62.6	71.0	75.6	73.6	66.7	55.7	44.3	33.9	53.5
Pittsburgh	28.9	29.2	36.8	49.0	59.8	68.4	72.1	70.8	64.2	53.1	40.8	30.7	50.3
R.I.— Providence	29.2	29.7	37.0	47.2	57.5	66.2	72.1	70.5	63.2	52.3	43.0	32.0	50.1
S.C.— Columbia	46.9	48.4	54.4	63.6	72.2	79.7	81.6	80.5	75.3	64.7	53.7	46.4	64.0
S. Dak.— Sioux Falls	15.2	19.1	30.1	45.9	58.3	68.1	74.3	71.8	61.8	50.3	32.6	21.1	45.7
Tenn.— Memphis	41.9	44.1	51.1	61.4	70.3	78.5	81.3	80.5	73.9	63.1	50.1	42.5	61.5
Nashville	39.9	42.0	49.1	59.6	68.6	77.4	80.2	79.2	72.8	61.5	48.5	41.4	60.0
Tex.— Dallas	45.9	49.5	56.1	65.0	72.9	81.3	84.9	85.0	77.9	67.8	54.9	48.1	65.8
El Paso	42.9	49.1	54.9	63.4	71.9	81.0	81.9	80.4	74.5	64.4	51.2	44.1	63.3
Houston ¹	54.6	57.1	62.4	69.3	76.2	82.2	83.9	84.1	79.8	72.4	61.6	56.5	70.0
Utah— Salt Lake City	27.2	32.5	40.4	49.9	58.9	67.4	76.9	74.5	64.4	51.7	36.7	30.1	50.9
Vt.— Burlington	16.2	17.4	26.7	41.2	53.8	64.2	69.0	66.7	58.4	47.6	35.3	21.5	43.2
Va.— Norfolk	41.2	41.6	48.0	58.0	67.5	75.6	78.8	77.5	72.6	62.0	51.4	42.5	59.7
Richmond	38.7	39.9	47.7	58.1	67.0	75.1	78.1	76.0	70.2	58.7	48.5	39.7	58.1
Wash.— Seattle ¹	41.2	43.6	46.4	51.8	57.4	61.4	65.6	65.0	61.2	54.4	46.9	43.8	53.2
Spokane	25.3	30.0	38.1	47.3	56.2	61.9	67.5	68.0	60.9	49.1	35.7	30.1	47.8
W. Va.— Charleston	36.6	37.5	44.4	55.3	64.8	72.0	74.9	73.8	68.2	57.3	45.3	37.1	55.6
Wis.— Milwaukee	20.6	22.4	31.0	43.6	53.4	63.3	68.7	67.8	60.3	50.0	35.8	24.6	46.1
Wyo.— Cheyenne	25.4	27.8	32.4	42.6	52.9	63.0	70.0	67.7	58.6	47.5	34.2	29.5	45.9
P.R.— San Juan ¹	75.1	75.1	76.0	77.0	78.8	79.9	80.1	80.8	80.7	80.2	78.6	76.7	78.3

¹ City office data.² Abbe Observatory data.

No. 246. NORMAL MONTHLY MAXIMUM TEMPERATURE—SELECTED CITIES

[In Fahrenheit degrees. Airport data unless otherwise noted. Based on standard 30-year period, 1931 to 1960]

STATION	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual avg.
Ala. Mobile	62.3	64.7	70.3	77.5	85.9	91.4	92.0	91.2	87.4	80.3	69.6	63.9	78.0
Alaska Juneau	30.1	32.1	36.5	45.4	53.6	60.8	62.7	61.5	55.2	46.5	39.2	32.7	46.4
Ariz. Phoenix	64.0	68.1	75.0	83.9	92.9	101.6	104.6	101.6	98.2	86.7	73.7	66.1	84.7
Ark. Little Rock	50.6	54.6	62.7	73.5	81.5	89.7	92.7	92.3	86.3	76.0	61.3	52.1	72.8
Calif. Los Angeles ¹	65.0	68.0	68.6	70.6	73.5	77.1	83.3	83.3	82.4	77.3	73.3	67.5	74.0
Sacramento ¹	54.4	59.7	64.6	71.3	76.9	84.5	90.0	88.6	86.7	76.5	65.2	55.3	72.8
San Francisco ¹	55.8	58.6	60.7	61.9	63.4	65.0	64.3	64.9	68.9	68.3	63.7	57.5	62.8
Colo. Denver	42.1	44.6	49.9	60.5	70.5	82.0	88.4	86.8	79.0	66.6	51.7	45.2	63.9
Conn. Hartford	36.0	37.6	45.9	59.1	70.9	79.2	83.8	81.6	74.0	64.4	51.3	38.8	60.2
Del. Wilmington	41.3	42.4	50.5	62.5	73.4	81.8	86.2	84.2	77.9	67.3	55.1	43.5	63.8
D.C. Washington	44.3	46.1	53.8	65.8	75.5	83.4	87.0	85.0	78.6	68.3	56.5	45.6	65.8
Fla. Jacksonville	66.8	68.5	73.3	79.6	86.4	90.5	92.0	91.4	87.6	80.2	72.2	66.7	79.6
Miami	75.8	77.0	79.8	82.6	85.4	88.0	88.8	89.7	88.0	84.7	80.2	77.1	88.1
Ga. Atlanta	54.0	56.5	62.9	72.1	80.5	87.3	88.4	88.3	83.1	73.6	62.0	53.3	71.8
Hawaii Honolulu	70.1	78.3	79.2	80.2	81.8	83.8	84.6	84.9	85.2	84.2	82.0	79.2	81.9
Idaho Boise	36.1	42.4	51.5	62.3	71.9	80.5	91.4	88.7	78.8	65.3	48.4	39.4	63.1
Ill. Chicago	33.0	34.7	43.5	57.4	60.1	70.5	84.1	82.4	74.8	63.4	47.1	35.7	58.7
Ind. Peoria	33.7	36.6	47.7	61.2	72.3	82.3	87.0	85.1	77.8	66.5	48.6	36.8	61.2
Iowa Des Moines	37.1	39.4	48.1	61.2	72.0	81.8	86.0	84.7	78.0	66.8	50.0	39.0	62.0
Kans. Wichita	29.1	32.9	44.1	60.6	72.8	82.6	88.3	85.4	77.6	65.4	46.5	33.9	59.9
Ky. Louisville	41.6	47.0	55.9	68.2	77.1	87.7	92.4	92.8	83.7	71.7	55.1	44.9	68.2
La. New Orleans ¹	43.5	45.6	53.8	64.6	76.2	85.0	88.5	87.3	81.3	69.6	54.4	44.7	66.4
La. New Orleans ¹	64.8	67.3	71.7	78.4	85.3	90.3	91.4	91.6	88.1	81.4	71.3	65.9	79.0
Maine Portland	31.8	33.5	40.7	52.5	64.2	73.1	79.5	78.4	70.2	59.8	47.6	35.3	55.6
Md. Baltimore ¹	44.1	45.3	52.9	64.7	75.1	83.4	87.4	85.3	78.8	68.4	56.4	45.7	65.6
Mass. Boston	36.8	37.4	44.6	55.7	67.5	76.3	81.9	80.0	73.4	62.7	51.9	40.1	59.0
Mich. Detroit	33.0	33.9	42.3	56.4	68.6	79.1	83.9	81.9	74.2	62.8	47.1	35.7	58.2
Minn. Sault Ste. Marie	23.1	24.0	31.7	46.4	59.9	69.9	75.6	74.0	64.4	54.5	39.6	27.3	49.2
Minn. Duluth	17.9	21.4	31.1	47.1	60.6	70.3	77.1	74.6	64.7	54.5	35.1	22.3	48.1
Minn. Minneapolis-St. Paul	22.4	26.3	37.2	55.7	69.1	78.1	83.9	81.3	72.2	60.6	40.5	27.4	54.6
Miss. Jackson	58.3	61.5	67.9	75.8	83.8	90.3	91.9	92.0	87.7	79.1	67.1	59.7	76.3
Mo. Kansas City	39.9	44.8	52.6	65.6	75.1	85.2	91.9	90.3	82.7	71.6	54.5	43.7	66.5
Mo. St. Louis	40.2	44.0	52.8	65.9	75.1	85.1	89.2	87.3	81.3	70.1	53.7	43.0	65.6
Mont. Great Falls	31.6	34.0	41.1	55.2	65.7	72.9	84.7	81.8	71.2	59.3	44.2	38.8	56.5
Nebr. Omaha	31.7	36.0	46.4	62.4	73.9	83.8	80.7	86.9	78.5	67.5	48.9	37.2	61.9
Nev. Reno	44.6	49.8	57.3	65.4	71.5	80.3	89.4	88.3	81.2	69.0	55.7	47.3	66.7
N.H. Concord	31.7	33.5	41.7	55.9	69.3	77.7	82.8	80.6	72.4	61.7	47.9	35.1	57.5
N.J. Atlantic City	42.9	43.3	49.7	60.3	71.0	79.2	83.8	82.2	76.0	66.5	55.5	45.1	63.0
N.Mex. Albuquerque	46.4	52.2	58.8	69.1	78.3	88.6	91.2	88.0	82.3	70.7	56.1	48.3	69.2
N.Y. Albany	31.0	32.5	41.9	56.7	69.5	73.7	83.7	81.7	71.4	51.8	47.5	34.5	57.7
N.Y. Buffalo	30.8	31.0	38.6	52.9	65.5	75.1	80.1	78.6	71.5	60.1	46.5	34.3	55.4
N.Y. New York ¹	39.5	40.3	47.8	59.6	71.4	80.2	85.3	83.3	76.8	66.3	53.7	42.5	62.2
N.C. Charlotte	51.4	53.7	60.0	71.0	79.4	87.6	88.8	87.3	81.9	72.8	60.7	51.3	70.5
N.C. Raleigh	51.9	54.0	61.1	71.8	79.4	86.3	88.1	87.1	82.0	72.8	62.2	52.3	70.8
N.Dak. Bismarck	19.6	23.3	35.1	54.9	68.2	76.5	85.7	83.7	72.6	59.4	38.6	26.9	53.7
Ohio Cincinnati ²	42.9	44.8	53.3	65.6	76.0	85.2	88.8	87.2	80.8	69.6	54.5	44.3	66.1
Ohio Cleveland	34.8	35.6	44.1	57.5	68.7	78.1	82.8	81.2	74.5	63.6	49.0	36.9	58.9
Ohio Columbus	37.8	39.5	48.4	62.2	73.5	82.9	86.6	85.0	77.6	65.8	50.6	39.6	62.5
Oklahoma City	45.9	51.3	59.5	70.6	78.1	87.4	92.8	93.0	84.7	73.9	58.8	49.2	70.5
Oreg. Portland ¹	44.9	49.5	54.6	62.2	68.5	72.6	79.2	78.4	74.2	64.0	52.6	47.6	62.4
Pa. Philadelphia	40.3	41.8	50.3	62.6	73.4	81.6	85.9	83.7	77.2	66.5	54.0	42.8	63.3
Pa. Pittsburgh	36.5	37.6	46.1	60.0	71.4	79.9	83.3	81.9	75.5	63.7	49.5	38.1	60.3
R.I. Providence	37.3	38.3	45.3	56.6	67.7	76.1	81.4	80.0	73.1	63.4	52.2	40.4	59.3
S.C. Columbia	58.2	60.5	65.6	76.3	84.7	91.5	92.5	91.2	86.1	77.4	66.7	58.2	75.8
S.Dak. Sioux Falls	25.1	29.1	39.4	57.0	70.1	79.4	86.0	83.3	73.5	61.9	42.5	30.3	55.6
Tenn. Memphis	50.6	53.9	61.4	72.1	80.1	88.3	91.1	90.7	85.6	75.7	61.5	52.5	72.0
Tenn. Nashville	48.8	51.4	59.4	70.8	79.8	88.4	90.7	89.9	84.5	73.7	59.1	50.3	70.6
Tex. Dallas	58.8	59.5	67.0	75.4	82.7	90.9	94.5	95.0	88.3	78.8	65.7	58.0	76.0
Tex. El Paso	56.3	62.4	69.4	72.8	86.9	95.4	94.9	93.0	87.5	78.8	66.3	57.5	77.2
Tex. Houston ¹	62.6	65.2	70.9	77.5	84.4	90.4	92.0	92.4	88.3	81.6	70.4	64.6	78.4
Utah Salt Lake City	36.8	42.0	52.0	63.4	74.0	83.7	94.1	90.8	80.3	65.2	47.5	39.0	64.1
Vt. Burlington	25.4	27.1	36.3	52.4	66.4	77.1	81.9	79.6	70.6	58.6	43.4	30.2	54.1
Va. Norfolk	50.2	51.0	57.2	68.0	77.3	84.9	87.9	86.2	80.9	70.9	61.0	51.8	68.9
Va. Richmond	48.3	50.6	59.1	70.4	79.3	86.8	89.4	86.5	81.8	70.6	59.9	49.8	69.4
Wash. Seattle ¹	45.6	48.8	52.7	59.4	66.7	69.6	75.1	73.9	69.0	60.4	51.8	48.0	60.0
Wash. Spokane	31.4	37.4	47.0	58.6	69.3	74.5	85.6	83.0	74.7	60.1	42.9	35.9	55.4
W.Va. Charleston	45.2	46.9	54.5	66.3	76.7	83.2	85.6	84.3	79.5	69.3	55.3	45.6	66.0
Wis. Milwaukee	28.3	30.2	38.8	53.1	63.9	73.9	78.9	77.7	70.7	60.1	44.1	32.0	54.3
Wyo. Cheyenne	37.2	39.4	44.1	55.5	65.1	76.5	85.2	82.8	74.2	62.7	47.2	41.6	59.3
P.R. San Juan ¹	79.9	80.0	81.0	81.8	83.4	84.4	84.2	85.3	85.8	85.5	83.5	81.4	83.0

¹ City office data.² Abbe Observatory data.

Source: Dept. of Commerce, Weather Bureau; unpublished data.

No. 247. NORMAL MONTHLY MINIMUM TEMPERATURE—SELECTED CITIES

In Fahrenheit degrees. Airport data unless otherwise noted. Based on standard 30-year period, 1931 to 1960]

STATION	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual avg.
Ala. Mobile	43.7	45.7	50.3	57.6	65.3	71.5	73.1	73.0	68.3	59.5	48.2	44.3	58.4
Alaska Juneau	20.1	21.4	24.3	30.5	37.6	43.7	47.8	46.6	42.5	36.7	29.4	24.0	33.7
Ariz. Phoenix	35.3	38.9	42.9	50.4	57.1	65.5	75.0	73.4	67.3	54.6	42.4	37.0	50.6
Ark. Little Rock	30.5	34.1	40.9	51.2	59.5	68.0	71.1	70.1	62.2	50.2	37.6	31.7	48.8
Calif. Los Angeles ¹	46.6	48.2	50.2	53.0	56.0	58.9	62.6	62.9	61.4	57.4	52.1	47.4	54.8
Sacramento ¹	38.3	41.2	43.8	47.8	51.4	55.5	58.0	57.0	56.0	50.8	43.2	39.2	48.5
San Francisco ¹	45.5	47.3	48.6	49.5	51.3	53.1	53.3	53.9	55.1	54.4	51.0	47.4	50.9
Colo. Denver	14.8	18.3	22.8	32.3	41.8	51.0	57.4	54.2	47.0	36.2	26.0	18.0	35.0
Conn. Hartford	18.8	19.4	27.4	37.3	47.2	56.5	61.8	59.9	52.0	41.4	32.2	21.5	39.6
Del. Wilmington	25.5	25.2	32.0	41.6	52.0	61.0	64.3	57.3	45.9	35.7	26.7	14.4	44.4
D.C. Washington	29.5	29.4	35.8	45.6	56.0	64.9	69.3	67.9	60.7	49.6	38.9	30.5	48.2
Fla. Jacksonville	45.0	46.5	51.1	57.8	65.1	71.1	73.2	73.2	71.1	61.8	51.2	45.5	59.4
Miami	57.9	58.8	61.1	65.8	70.9	73.5	74.7	74.9	74.6	70.9	64.6	59.1	67.1
Ga. Atlanta	35.5	36.5	40.9	49.9	58.6	66.3	69.2	68.4	63.1	51.7	40.1	34.8	51.3
Hawaii Honolulu	65.8	66.0	66.4	68.1	70.0	72.0	73.0	73.8	73.2	72.1	69.7	67.9	69.8
Idaho Boise	22.1	26.5	31.9	37.4	44.5	51.1	59.0	55.5	46.6	37.9	28.7	25.0	38.9
Ill. Chicago	19.0	20.6	29.0	40.5	50.9	61.5	67.1	65.9	57.4	46.7	32.6	22.5	42.8
Peoria	17.6	20.1	28.4	40.3	50.7	61.1	65.0	63.5	55.0	44.1	30.7	21.3	41.5
Ind. Indianapolis	21.0	22.8	29.7	40.3	50.7	60.4	64.3	62.7	54.9	44.0	31.8	23.2	42.2
Iowa Des Moines	12.5	15.9	26.8	40.1	51.7	62.2	66.6	64.6	55.1	43.0	28.3	17.1	40.3
Kans. Wichita	22.3	25.6	33.0	45.2	54.9	65.2	69.4	68.3	58.9	48.0	35.7	26.6	40.0
Ky. Louisville	26.5	26.0	32.8	43.1	52.6	61.8	66.6	65.1	57.7	46.2	34.9	27.8	45.1
La. New Orleans ¹	46.2	48.0	54.9	66.0	71.9	73.7	73.4	69.7	60.7	50.6	47.2	59.9	59.9
Maine Portland	11.7	12.1	22.0	32.4	41.7	51.1	56.7	55.2	47.2	37.4	28.6	16.3	34.4
Md. Baltimore ¹	30.4	30.3	36.5	46.6	57.1	66.0	70.7	69.2	62.4	51.6	41.2	32.2	49.5
Mass. Boston	23.0	23.1	30.7	40.0	50.1	59.2	65.4	63.3	57.1	47.2	37.8	26.5	43.6
Mich. Detroit	20.7	20.4	27.3	38.8	49.4	60.3	64.8	63.6	56.0	44.7	35.7	24.1	42.0
Sault Ste. Marie	8.4	7.4	15.8	29.6	39.3	48.0	53.5	54.0	47.1	38.1	26.9	14.4	31.9
Minn. Duluth	-0.6	0.1	11.4	26.9	37.7	47.3	52.9	43.7	34.6	19.5	5.7	27.7	27.8
Minneapolis St. Paul	2.3	5.0	17.6	32.8	45.4	55.5	60.7	58.6	48.5	37.2	21.8	8.7	32.8
Miss. Jackson	37.6	39.9	44.8	52.9	61.2	68.4	71.2	70.5	64.7	53.0	42.7	38.3	53.8
Mo. Kansas City	23.4	26.7	34.0	45.8	56.0	66.5	71.0	69.2	59.9	48.7	34.6	27.9	47.0
St. Louis	23.5	25.3	32.4	43.8	53.3	63.1	66.9	66.3	57.6	46.6	34.5	26.5	45.0
Mont. Great Falls	12.5	13.6	20.2	31.9	40.2	46.9	54.1	51.8	43.5	35.6	24.4	18.8	32.8
Nebr. Omaha	12.9	17.0	27.3	40.9	52.1	62.4	67.3	65.5	55.3	43.8	28.8	19.1	41.0
Nev. Reno	16.2	21.4	25.6	30.5	36.3	39.8	45.9	42.7	36.4	29.4	20.8	14.4	30.1
N.H. Concord	10.6	11.8	21.7	21.7	41.6	51.3	56.4	54.1	46.2	35.6	27.2	14.8	33.6
N.J. Atlantic City	26.6	26.1	32.4	41.7	51.5	60.7	66.3	65.1	58.4	47.8	37.9	28.1	45.2
N. Mex. Albuquerque	23.5	27.5	32.7	42.2	51.9	61.1	65.8	64.3	57.6	45.8	31.1	25.6	44.1
N.Y. Albany	14.4	14.8	24.0	35.7	46.8	55.8	60.5	58.5	50.3	39.8	26.0	18.5	37.4
Buffalo	18.2	17.2	24.4	34.0	44.1	54.5	59.4	58.1	51.2	41.4	31.7	21.1	37.9
New York ¹	26.9	26.4	33.2	43.1	53.4	62.5	68.2	66.8	60.1	50.3	40.3	29.9	46.8
N.C. Charlotte	34.0	34.7	40.0	49.6	56.8	66.6	69.5	69.5	63.8	52.2	40.1	34.1	51.1
Raleigh	31.3	31.9	37.8	46.8	55.7	63.9	67.6	66.7	60.4	48.2	37.7	31.4	48.3
N. Dak. Bismarck	0.1	3.7	17.3	32.1	43.6	52.4	57.7	54.8	44.7	34.0	10.1	8.6	30.7
Ohio Cincinnati ²	28.0	28.7	35.2	45.7	55.5	65.3	68.7	67.5	60.3	49.8	38.2	30.0	47.7
Cleveland	20.3	26.7	35.7	46.3	56.2	60.2	68.2	58.5	52.3	42.0	31.8	22.9	39.4
Columbus	22.0	22.7	29.3	39.4	49.4	58.6	62.9	61.4	52.2	42.5	31.8	23.4	41.5
Oklahoma City	28.1	31.2	37.5	49.1	58.6	68.5	72.2	72.0	62.9	51.8	38.0	31.4	50.1
Oreg. Portland ¹	35.5	38.1	40.7	44.8	49.7	54.2	57.9	57.8	54.8	49.0	41.7	38.6	46.9
Pa. Philadelphia	24.3	24.6	31.6	41.4	51.8	60.4	65.2	63.5	56.2	44.9	34.5	25.5	43.7
Pittsburgh	21.2	20.7	27.4	37.9	48.1	56.9	60.9	59.6	52.8	42.4	32.0	23.2	40.3
R.I. Providence	21.0	21.1	28.6	37.7	47.2	56.3	62.7	60.9	53.3	42.9	33.8	23.5	40.8
S.C. Columbia	35.6	36.3	42.3	50.8	59.6	67.9	70.7	69.7	64.5	52.0	40.7	34.5	52.1
S. Dak. Sioux Falls	5.2	9.0	20.8	34.7	45.6	55.8	62.5	60.3	50.0	38.6	22.7	11.9	34.9
Tenn. Memphis	32.4	34.3	40.7	50.7	60.4	68.6	71.5	70.3	62.1	50.5	38.7	32.5	51.1
Nashville	30.9	32.5	38.7	48.4	57.4	66.3	69.6	68.4	61.1	49.3	37.9	32.4	49.4
Tex. Dallas	36.0	39.4	45.2	54.6	63.1	71.7	75.3	75.0	67.4	56.8	44.1	38.1	55.6
El Paso	29.5	37.5	40.3	48.5	56.9	65.8	70.9	67.7	61.4	50.0	36.1	30.7	49.4
Houston ¹	46.6	49.0	53.8	61.0	67.9	73.9	75.8	75.7	71.3	63.1	52.7	48.4	61.6
Utah Salt Lake City	17.5	22.9	28.8	36.4	43.8	51.0	59.6	58.2	48.5	38.2	25.9	21.2	37.7
Vt. Burlington	6.9	7.6	17.0	30.0	41.2	51.2	56.0	53.8	46.1	36.6	27.1	12.8	32.2
Va. Norfolk	32.2	32.2	38.7	47.9	57.7	66.3	69.6	68.8	64.3	53.1	41.8	33.1	50.5
Richmond	29.0	29.2	36.3	45.8	54.6	63.4	66.7	65.4	58.6	46.7	37.1	29.5	46.9
Wash. Seattle ¹	36.8	38.3	40.1	44.1	49.0	58.1	65.1	56.1	53.3	48.3	41.0	39.5	46.4
Spokane	19.2	22.5	29.1	35.9	43.1	49.3	55.4	52.9	47.0	38.0	28.5	24.2	37.1
W.Va. Charleston	27.9	28.0	34.3	44.3	52.8	60.8	64.2	63.3	56.8	45.3	35.2	28.6	45.1
Wis. Milwaukee	12.8	14.6	23.2	34.1	42.9	52.6	58.4	57.8	49.9	39.7	27.5	17.1	35.9
Wyo. Cheyenne	13.6	15.2	20.7	29.6	40.6	49.5	56.8	52.6	43.0	32.2	21.2	17.4	32.5
P.R. San Juan ¹	70.3	70.1	71.0	72.2	74.1	75.4	76.0	76.2	75.6	74.9	73.7	72.0	73.5

¹ City office data. ² Abbe Observatory data.

Temperature 183

No. 248. HIGHEST TEMPERATURE OF RECORD—SELECTED CITIES

[In Fahrenheit degrees. Airport data unless otherwise noted. For period of record through 1962]

STATION	Length of record (yrs.)	Temperature												An- nual	
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		
Ala. Mobile	21	84	84	90	92	100	102	104	102	98	93	85	80	104	
Alaska Juneau	19	57	48	52	71	82	84	84	83	72	61	56	54	84	
Ariz. Phoenix	24	85	88	92	104	113	117	118	115	118	104	91	88	118	
Ark. Little Rock	19	83	83	86	92	96	104	107	107	106	94	86	80	107	
Calif. Los Angeles ¹	22	86	90	88	96	99	104	103	101	110	104	95	89	110	
	29	70	74	82	94	102	112	110	102	109	102	83	72	112	
	26	79	75	83	86	91	101	92	87	97	94	84	76	101	
Colo. Denver	2	64	72	72	83	90	95	99	99	100	97	87	72	67	100
Conn. Hartford	3	54	59	75	94	94	95	94	94	96	85	74	57	96	
Del. Wilmington	15	75	74	86	89	95	99	102	101	100	91	85	71	102	
D.C. Washington	21	79	82	89	95	95	101	103	100	100	94	85	75	103	
Fla. Jacksonville	21	85	88	90	93	99	103	105	102	100	96	88	84	105	
	20	87	89	90	93	94	98	98	98	95	92	89	86	98	
Ga. Atlanta	2	69	79	80	85	93	91	94	92	93	85	84	72	94	
Hawaii Honolulu	40	83	82	83	83	84	86	86	87	83	88	87	86	85	88
Idaho Boise	3	55	64	74	86	96	104	111	110	94	90	67	57	111	
Ill. Chicago	20	67	69	82	88	94	104	103	101	101	91	81	65	104	
	20	68	70	81	86	92	100	103	101	100	90	81	66	103	
Ind. Indianapolis	23	71	72	81	88	93	102	104	100	100	90	81	69	104	
Iowa Des Moines	22	62	68	82	88	94	100	105	102	101	92	76	69	105	
Kans. Wichita	10	68	81	89	94	100	106	113	107	103	95	80	83	113	
Ky. Louisville	2	69	77	77	88	91	92	94	101	92	84	81	70	101	
La. New Orleans	47	83	85	90	91	97	102	100	100	99	93	89	84	102	
Maine Portland	22	64	64	86	85	92	97	98	100	95	87	73	62	100	
Md. Baltimore ¹	92	79	83	90	95	98	105	107	105	101	97	76	75	107	
Mass. Boston	11	62	68	75	91	93	100	100	100	100	90	74	64	100	
Mich. Detroit	29	67	68	82	87	93	104	105	101	100	89	81	59	105	
Minn. Sault Ste. Marie	22	43	45	75	82	85	92	92	92	98	93	80	66	51	98
	21	52	53	78	88	87	92	97	97	97	89	86	68	55	97
Minn. Minneapolis-St. Paul	22	58	59	78	92	95	100	104	102	98	89	75	63	104	
Miss. Jackson	7	80	84	84	90	95	97	100	99	97	92	85	84	100	
Mo. Kansas City	27	75	76	89	91	103	108	112	113	109	98	83	74	113	
	5	66	83	80	91	92	98	97	105	99	90	70	66	105	
Mont. Great Falls	24	62	67	72	87	90	99	102	105	94	91	72	69	105	
Nebr. Omaha	9	62	65	80	92	94	102	107	103	102	88	75	64	107	
Nev. Reno	21	68	70	78	87	94	101	104	102	101	89	77	69	104	
N.H. Concord	21	68	66	85	91	97	98	99	100	98	89	80	63	100	
N.J. Atlantic City	19	73	73	87	89	96	100	98	102	97	90	84	72	102	
N. Mex. Albuquerque	2	57	69	75	86	91	100	101	98	92	82	71	60	101	
N.Y. Albany	16	64	62	79	91	94	99	100	99	100	88	82	61	100	
	2	46	57	73	83	88	86	91	93	81	78	80	60	93	
	94	72	75	86	92	99	101	106	104	102	94	84	70	106	
N.C. Charlotte	2	72	78	79	91	95	93	98	95	94	87	85	72	98	
	18	79	80	92	93	97	104	105	101	104	98	88	78	105	
N. Dak. Bismarck	21	54	68	81	92	98	99	107	109	105	95	73	60	109	
Ohio Cincinnati ¹	47	77	76	88	90	98	102	109	103	101	92	83	71	109	
	2	55	69	77	85	91	91	92	92	91	83	79	63	92	
	3	64	72	77	88	93	95	94	96	93	82	79	64	96	
Oklas. Oklahoma City	9	70	84	89	95	95	100	107	107	102	93	81	86	107	
Oreg. Portland ¹	60	65	68	83	93	99	102	107	102	102	90	71	65	107	
Pa. Philadelphia	3	57	67	80	92	96	92	93	91	92	85	80	66	96	
	3	60	66	75	86	91	91	90	95	95	87	82	63	95	
R.I. Providence	9	60	65	70	87	90	95	97	95	91	85	74	61	97	
S.C. Columbia	15	82	84	89	93	101	107	107	106	101	101	90	80	107	
S. Dak. Sioux Falls	17	59	70	80	94	93	101	108	105	99	92	75	61	108	
Tenn. Memphis	21	78	81	85	91	97	104	106	105	103	95	85	79	106	
	23	78	84	83	90	97	106	107	104	105	94	84	76	107	
Tex. Dallas	20	88	88	96	96	99	105	111	109	105	99	89	89	111	
	18	75	81	86	94	104	109	109	103	103	93	83	76	109	
	25	82	90	96	92	95	99	105	106	99	97	89	83	106	
Utah Salt Lake City	3	56	65	78	85	92	104	107	103	94	84	69	56	107	
Vt. Burlington	19	63	60	84	87	91	96	98	101	94	85	75	62	101	
Va. Norfolk	14	77	78	85	97	97	100	103	97	98	95	85	77	103	
	33	80	83	93	96	100	104	104	102	103	99	86	78	104	
Wash. Seattle ¹	29	66	70	75	87	92	100	100	97	92	78	70	65	100	
	3	49	56	71	80	87	97	102	108	90	79	53	51	108	
W. Va. Charleston	15	79	77	87	90	93	98	102	100	102	92	85	79	102	
Wis. Milwaukee	6	53	56	67	85	90	93	98	96	94	81	68	58	96	
Wyo. Cheyenne	3	61	71	70	82	85	92	96	95	93	79	67	66	96	
P.R. San Juan ¹	64	90	91	96	93	94	98	92	94	94	94	93	90	96	

¹ City office data.

No. 249. LOWEST TEMPERATURE OF RECORD—SELECTED CITIES

[In Fahrenheit degrees. Airport data unless otherwise noted. For period of record through 1962]

STATION	Length of record (yrs.)	An- ual											
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Ala. Mobile	21	7	11	21	36	43	56	60	59	47	32	22	10
Alaska Juneau	19	-19	-12	-11	7	25	31	36	27	26	16	-3	-21
Ariz. Phoenix	24	17	22	29	32	42	50	61	60	49	36	25	22
Ark. Little Rock	19	-4	-5	11	30	41	52	56	57	37	31	17	8
Calif. Los Angeles ¹	22	28	34	38	42	47	50	54	53	51	46	40	28
Calif. Sacramento ¹	29	22	26	31	34	37	44	51	50	44	34	30	23
Calif. San Francisco ¹	26	30	36	38	42	44	47	47	48	48	45	41	37
Colo. Denver	2	-24	-18	-4	15	32	40	48	43	29	22	-2	-16
Conn. Hartford	3	-26	-21	4	23	30	39	44	46	31	24	15	-9
Del. Wilmington	14	-4	-1	9	23	34	44	50	48	37	26	14	3
D.C. Washington	21	5	11	24	34	47	55	53	40	30	16	1	1
Fla. Jacksonville	21	20	19	25	35	49	57	65	64	55	38	23	12
Fla. Miami	20	34	32	40	41	53	65	69	68	69	51	39	32
Ga. Atlanta	2	8	18	25	31	41	56	62	61	50	35	20	1
Hawaii Honolulu ¹	40	58	58	59	64	64	68	68	69	66	62	59	1
Idaho Boise	3	-12	5	13	20	28	33	44	38	30	23	10	-12
Ill. Chicago	20	-15	-15	-7	19	30	35	49	46	36	20	-2	-14
Ind. Peoria	20	-14	-16	-10	20	31	39	47	43	26	19	-1	-14
Iowa. Indianapolis	23	-13	-10	-6	16	29	39	44	42	28	17	-2	-15
Iowa. Des Moines	22	-21	-20	-22	17	30	38	49	40	26	16	-2	-15
Kans. Wichita	10	-12	-3	-2	17	33	44	54	48	40	23	8	-5
Ky. Louisville	2	8	6	16	25	33	47	50	53	39	25	19	-5
La. New Orleans ¹	47	17	20	28	41	50	62	66	65	54	40	31	19
Maine. Portland	22	-21	-39	-21	8	23	33	41	38	23	18	6	-15
Md. Baltimore ¹	92	-6	-7	5	15	34	46	54	51	39	30	12	-3
Mass. Boston	11	-12	-4	7	17	34	47	55	52	40	31	17	-12
Mich. Detroit	29	-9	-16	-1	14	30	38	48	43	32	25	5	-16
Minn. Sault Ste. Marie	22	-24	-25	-24	1	21	31	36	32	25	20	-5	-20
Minn. Duluth	21	-35	-29	-28	-5	20	30	39	37	22	9	-17	-35
Minn. Minneapolis													
Minn. St. Paul	22	-31	-28	-32	2	26	34	45	40	26	16	-9	-22
Miss. Jackson	7	-1	10	21	33	42	48	63	54	46	28	20	8
Mo. Kansas City	27	-13	-13	-3	16	32	44	54	49	34	24	5	-13
Mo. St. Louis	5	-8	-5	-5	24	37	51	51	53	40	28	6	-5
Mont. Great Falls	24	-33	-35	-29	-6	15	31	42	35	25	7	-23	-35
Nebr. Omaha	9	-15	-15	-14	18	31	43	52	50	35	22	-1	-10
Nev. Reno	21	-16	-12	-2	13	19	25	33	30	21	13	1	-9
N.H. Concord	21	-30	-37	-16	9	21	33	38	33	21	16	5	-22
N.J. Atlantic City	19	-8	-4	9	24	32	42	52	49	35	26	-7	-8
N.Mex. Albuquerque	2	-6	9	11	26	34	45	55	56	40	33	22	7
N.Y. Albany	16	-26	-21	-21	14	27	36	44	42	24	20	6	-19
N.Y. Buffalo	2	-6	-20	2	20	29	39	47	46	34	26	17	-20
N.Y. New York ¹	94	-6	-15	3	12	32	44	52	50	39	28	5	-13
N.C. Charlotte	2	8	20	27	28	41	52	53	58	44	24	22	2
N.C. Raleigh	18	5	7	11	27	32	44	52	49	37	19	14	4
N. Dak. Bismarck	21	-44	-34	-31	-2	19	33	39	37	16	6	-10	-44
Ohio. Cincinnati ¹	47	-17	-9	3	18	30	40	50	43	32	20	1	-13
Ohio. Cleveland	2	-8	-4	6	20	28	39	43	44	34	23	21	-4
Ohio. Columbus	3	-13	1	-2	22	32	44	45	48	31	20	16	-7
Okl. Oklahoma City	9	-4	7	3	20	39	47	57	51	46	22	11	-4
Oreg. Portland ¹	60	6	7	22	30	36	41	43	44	35	29	15	3
Pa. Philadelphia	3	-4	-4	9	27	35	48	52	51	39	25	20	-4
P.R.I. Pittsburgh	3	-10	-7	-1	21	31	42	47	45	31	24	8	-5
R.I. Providence	9	-9	-6	7	14	29	43	49	45	34	26	16	-5
S.C. Columbia	15	12	11	18	29	41	51	54	54	44	23	16	4
S. Dak. Sioux Falls	17	-26	-31	-23	11	20	33	44	34	24	13	-17	-25
Tenn. Memphis	21	-4	-11	12	29	38	50	52	48	36	25	9	-11
Tenn. Nashville	23	-15	-13	5	25	36	44	51	47	36	26	-1	-7
Tex. Dallas	20	2	7	11	31	39	53	61	61	36	30	17	12
Tex. El Paso	18	-8	8	18	28	38	50	60	59	41	32	16	5
Tex. Houston ¹	25	10	14	21	39	46	57	68	63	45	37	28	20
Utah Salt Lake City	3	-14	-4	9	24	28	35	50	38	32	18	11	-10
Vt. Burlington	19	-30	-26	-20	9	25	35	44	39	26	21	-2	-22
Va. Norfolk	14	12	11	20	30	36	48	57	56	46	30	20	14
Wash. Richmond	23	-12	-10	11	20	31	41	51	46	38	21	10	-1
Wash. Seattle ¹	29	11	12	22	31	35	45	48	48	42	30	18	11
Wash. Spokane	3	-13	3	2	25	30	34	39	40	32	24	-2	-16
W. Va. Charleston	15	-9	-2	10	20	32	41	46	46	34	26	6	-9
Wis. Milwaukee	6	-14	-17	-10	21	31	39	44	49	36	20	14	-17
Wyo. Cheyenne	3	-22	-24	-11	-15	30	34	44	40	22	12	-8	-17
P.R. San Juan ¹	64	63	62	63	65	66	66	70	68	69	68	65	62

¹ City office data.

No. 250. NORMAL MONTHLY AND ANNUAL PRECIPITATION—SELECTED CITIES

In inches. Airport data unless otherwise noted. Based on standard 30-year period, 1931 to 1960. T denotes trace. See *Historical Statistics, Colonial Times to 1957*, series J 136-265, for related data.

STATION	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Ala.---Mobile	4.64	4.59	7.23	6.36	4.88	6.23	9.67	6.44	6.25	3.03	3.35	5.46	68.13
Alaska---Juneau	4.00	3.06	3.27	2.87	3.24	3.39	4.49	5.02	6.67	8.33	6.06	4.22	54.62
Ariz.---Phoenix	0.73	0.85	0.66	0.32	0.13	0.09	0.77	1.12	0.73	0.46	0.49	0.85	7.20
Ark.---Little Rock	5.22	4.33	4.81	4.93	5.28	3.61	3.34	2.82	3.23	2.88	4.12	4.09	48.66
Calif.---Los Angeles ¹	3.07	3.33	2.28	1.17	0.16	0.06	T	0.04	0.23	0.41	1.08	2.87	14.68
Sacramento ¹	3.58	3.47	2.46	1.62	0.62	0.12	T	0.04	0.22	0.80	1.54	3.55	18.02
San Francisco ¹	4.55	3.66	2.93	1.44	0.63	0.14	0.01	0.04	0.22	0.89	2.00	4.27	20.78
Colo.---Denver	0.55	0.60	1.21	2.11	2.70	1.44	1.53	1.28	1.13	1.01	0.69	0.47	14.81
Conn.---Hartford	3.58	2.94	3.80	3.73	3.41	3.70	3.61	4.01	3.65	3.18	3.84	3.47	42.92
Del.---Wilmington	3.40	2.95	4.02	3.33	3.53	4.07	4.25	5.59	3.95	2.91	3.53	3.03	44.56
D.C.---Washington	3.03	2.47	3.21	3.15	4.14	3.21	4.15	4.90	3.83	3.07	2.84	2.78	40.78
Fla.---Jacksonville	2.45	2.91	3.49	3.55	3.47	6.33	7.68	6.85	7.56	5.16	1.69	2.22	53.36
Miami ¹	2.03	1.87	2.27	3.88	6.44	7.37	6.75	6.97	9.47	8.21	2.83	1.67	59.76
Ga.---Atlanta	4.44	4.51	5.37	4.47	3.16	3.83	4.72	3.60	3.26	2.44	2.96	4.38	47.14
Hawaii---Honolulu	3.76	3.30	2.89	1.31	0.99	0.33	0.44	0.89	0.99	1.84	2.16	2.99	21.89
Idaho---Boise	1.32	1.33	1.32	1.16	1.29	0.89	0.21	0.16	0.39	0.84	1.20	1.32	11.43
Ill.---Chicago	1.86	1.60	2.74	3.04	3.73	4.07	3.37	3.16	2.73	2.78	2.20	1.90	33.18
Peoria	1.88	1.71	2.85	3.97	4.27	4.08	3.54	2.88	3.05	2.53	2.14	1.94	34.84
Ind.---Indianapolis	3.05	2.28	3.41	3.74	3.99	4.62	3.50	3.03	3.24	2.62	3.09	2.68	39.25
Iowa---Des Moines	1.30	1.10	2.09	2.53	4.07	4.71	3.06	3.67	2.88	2.06	1.76	1.14	30.37
Kans.---Wichita	0.81	0.92	1.64	2.30	3.97	4.21	3.64	2.87	3.22	2.40	1.49	0.94	28.41
Ky.---Louisville	4.10	3.29	4.59	3.82	3.90	3.99	3.36	2.97	2.63	2.25	3.20	3.22	41.32
La.---New Orleans ¹	4.42	4.60	6.22	5.41	5.11	5.49	7.92	6.34	5.99	3.22	3.74	4.90	63.25
Maine.---Portland	4.37	3.80	4.34	3.73	3.41	3.18	2.86	2.42	3.52	3.20	4.17	3.85	42.85
Md.---Baltimore ¹	3.43	2.98	3.94	3.71	4.15	3.87	4.39	4.60	3.63	3.25	3.10	3.16	44.21
Mass.---Boston	3.04	3.32	4.22	3.77	3.34	3.48	2.88	3.66	3.46	3.14	3.93	3.63	42.77
Mich.---Detroit	2.05	2.08	2.42	3.00	3.53	2.83	2.82	2.86	2.44	2.63	2.21	2.08	30.95
Hart St. Marie	2.07	1.50	1.81	2.16	2.77	3.30	2.48	2.89	3.81	2.82	3.38	2.28	31.22
Minn.---Duluth	1.15	0.96	1.62	2.36	3.29	4.27	3.54	3.81	2.86	2.17	1.78	1.16	28.97
Minneapolis-St. Paul	0.70	0.78	1.53	1.85	3.19	4.00	3.27	3.18	2.43	1.59	1.40	0.86	24.78
Miss.---Jackson	4.94	4.88	5.57	4.51	4.16	3.85	4.64	3.34	2.48	1.94	3.70	5.32	49.33
Mo.---Kansas City	1.41	1.24	2.49	3.56	4.40	4.57	3.19	3.77	3.25	2.86	1.80	1.53	34.07
St. Louis	1.98	2.04	3.08	3.71	3.73	4.29	3.30	3.02	2.76	2.86	2.57	1.97	35.31
Mont.---Great Falls	0.61	0.74	0.92	0.98	2.10	2.90	1.28	1.26	1.20	0.73	0.75	0.60	14.07
Nebr.---Omaha	0.82	0.95	1.45	2.56	3.48	4.53	3.37	3.98	2.63	1.73	1.26	0.80	27.56
Nev.---Reno	1.19	1.02	0.68	0.54	0.52	0.37	0.27	0.17	0.23	0.51	0.57	1.08	7.15
N.H.---Concord	3.23	2.48	3.26	3.31	3.17	3.60	3.41	2.96	3.75	2.68	3.72	3.25	38.80
N.J.---Atlantic City	3.56	3.13	3.91	3.41	3.51	2.82	3.72	4.90	3.31	3.20	3.66	3.22	42.36
N. Mex.---Albuquerque	0.41	0.38	0.48	0.47	0.75	0.57	1.20	1.33	0.95	0.75	0.38	0.46	8.13
N.Y.---Albany	2.47	2.20	2.72	2.77	3.47	3.25	3.49	3.07	3.58	2.77	2.70	2.59	35.08
Buffalo	2.84	2.72	3.24	3.01	2.95	2.54	2.57	3.05	3.13	3.00	3.60	3.00	35.65
New York ¹	3.31	2.84	4.01	3.43	3.67	3.31	3.70	4.44	3.87	3.14	3.39	3.26	42.37
N.C.---Charlotte	3.53	3.55	4.39	3.49	3.11	3.61	4.88	4.22	3.49	2.96	3.52	3.62	43.38
Raleigh	3.22	3.23	3.35	3.52	3.52	3.70	5.49	5.20	3.85	2.71	2.77	3.02	43.58
N. Dak.---Bismarck	0.44	0.43	0.75	1.22	1.97	3.40	2.19	1.73	1.19	0.85	0.59	0.36	15.15
Ohio.---Cincinnati ¹	3.07	2.80	3.89	3.63	3.80	4.18	3.59	3.28	2.71	2.24	2.05	2.77	39.51
Cleveland	2.67	2.33	3.13	3.41	3.52	3.43	3.31	3.28	2.90	2.42	2.61	2.34	35.35
Columbus	3.16	2.31	3.16	3.40	4.00	4.16	3.93	2.86	2.65	2.11	2.50	2.34	36.67
Oklahoma City	1.31	1.37	1.97	3.12	5.19	4.47	2.37	2.52	3.02	2.51	1.66	1.41	30.82
Oreg.---Portland ¹	6.34	4.90	4.78	2.45	2.05	1.68	0.39	0.69	1.74	3.89	6.04	7.42	42.37
Pa.---Philadelphia	3.32	2.80	3.80	3.40	3.74	4.05	4.16	4.63	3.46	2.78	3.40	2.94	42.48
Pittsburgh	2.97	2.19	3.32	3.08	3.91	3.78	3.88	3.31	2.54	2.52	2.24	2.40	36.14
R.I.---Providence	3.81	3.10	4.14	3.75	3.35	2.76	2.91	3.96	3.52	3.10	4.11	3.62	42.13
S.C.---Columbia	3.02	3.74	4.26	4.01	3.54	3.85	6.09	5.74	4.31	2.88	2.36	3.52	46.82
S. Dak.---Sioux Falls	0.62	0.93	1.54	2.31	3.38	4.35	2.84	3.59	2.61	1.25	1.00	0.74	25.16
Tenn.---Memphis	6.07	4.69	5.07	4.63	4.23	3.68	3.54	2.97	2.82	2.72	4.38	4.93	49.73
Nashville	5.49	4.51	5.19	3.74	3.72	3.25	3.72	2.86	2.87	2.92	3.28	4.19	45.15
Tex.---Dallas	2.32	2.55	2.85	4.00	4.83	3.24	1.94	1.93	2.82	2.70	2.70	2.67	34.55
El Paso ¹	0.46	0.41	0.35	0.29	0.40	0.69	1.29	1.19	1.14	0.85	0.33	0.49	7.89
Houston ¹	3.72	3.21	2.40	3.42	4.43	3.83	5.15	3.55	3.81	3.60	4.04	4.10	45.26
Utah---Salt Lake City	1.35	1.18	1.56	1.76	1.40	0.98	0.58	0.87	0.59	1.15	1.30	1.24	13.90
Vt.---Burlington	1.95	1.79	2.11	2.63	2.99	3.49	3.85	3.37	3.31	2.97	2.62	2.13	33.21
Va.---Norfolk	3.32	3.21	3.45	3.16	3.36	3.61	5.92	5.97	4.22	2.92	3.05	2.74	44.94
Richmond	3.46	2.90	3.42	3.15	3.72	3.75	5.61	5.64	3.65	3.00	3.04	2.97	44.21
Wash.---Seattle ¹	5.19	3.90	3.32	1.97	1.59	1.41	0.63	0.74	1.65	3.28	5.00	4.45	44.10
Spokane	2.44	1.86	1.50	0.91	1.21	1.49	0.38	0.41	0.75	1.57	2.24	2.43	17.19
W. Va.---Charleston	4.32	3.53	4.34	3.68	3.71	3.69	5.67	3.95	2.92	2.58	2.79	3.25	44.43
Wis.---Milwaukee	1.83	1.40	2.31	2.53	3.16	3.64	2.95	3.06	2.72	2.10	2.18	1.63	29.51
Wyo.---Cheyenne	0.52	0.56	1.21	1.88	2.52	2.11	1.82	1.44	1.10	0.83	0.62	0.45	18.06
P.R.---San Juan ¹	4.13	2.70	2.07	3.89	7.16	5.83	6.02	6.34	6.04	5.24	6.05	4.89	60.36

¹ City office data.

No. 251. AVERAGE NUMBER OF DAYS WITH PRECIPITATION OF 0.01 INCH OR MORE—SELECTED CITIES

[Airport data unless otherwise noted. For period of record through 1961]

STATION	Length of record (yrs.)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual	
Ala.----Mobile	20	10	11	11	8	8	12	18	13	10	6	8	11	125	
Alaska----Juneau	18	18	17	18	17	17	15	17	18	20	23	20	22	222	
Ariz.----Phoenix	22	4	3	2	1	1	4	5	3	3	2	4	3	34	
Ark.----Little Rock	19	10	10	11	11	10	8	8	7	7	6	8	9	105	
Calif.----Los Angeles ¹	21	6	5	6	4	2	1	(2) ²	1	1	2	4	5	37	
	28	11	10	8	6	3	1	(2) ²	1	1	3	6	9	50	
	25	11	10	10	6	4	2	1	1	1	4	7	10	68	
Colo.----Denver	27	6	6	8	9	11	9	9	8	6	6	5	4	87	
Conn.----Hartford	7	10	10	12	13	12	11	11	11	10	9	12	10	130	
Del.----Wilmington	14	12	10	13	12	13	10	9	9	8	9	9	10	123	
D.C.----Washington	20	11	8	12	10	12	9	10	10	8	7	8	9	115	
Fla.----Jacksonville	20	7	8	8	7	8	11	15	14	14	8	6	8	115	
	19	6	5	6	7	10	13	16	16	18	15	8	7	127	
Ga.----Atlanta	27	11	10	12	9	9	10	12	10	7	6	8	11	115	
Hawaii----Honolulu ¹	39	12	12	13	12	11	11	13	13	12	12	13	14	148	
Idaho----Boise ¹	22	12	11	10	9	6	2	2	3	7	10	11	90		
Ill.----Chicago	19	10	10	12	13	12	11	9	8	8	8	10	10	121	
	22	9	8	11	12	12	10	8	8	7	8	9	110		
Ind.----Indianapolis	22	12	10	12	12	13	11	9	8	8	8	10	11	123	
Iowa----Des Moines	22	7	8	10	10	11	11	9	9	7	7	6	7	103	
Kans.----Wichita	8	6	6	8	7	11	9	9	7	6	5	4	5	85	
Ky.----Louisville	14	13	11	13	13	11	11	10	8	7	7	9	11	123	
La.----New Orleans ¹	46	10	9	9	7	9	12	15	14	10	7	7	10	119	
Maine----Portland	21	12	11	11	12	13	12	9	9	9	9	11	11	126	
Md.----Baltimore ¹	91	11	10	12	11	11	11	11	11	10	9	10	10	123	
Mass.----Boston	10	12	12	12	13	13	10	10	10	9	10	11	10	132	
Mich.----Detroit	28	13	12	13	13	12	11	9	9	9	9	11	13	134	
	20	18	15	13	11	11	12	10	10	13	11	18	19	161	
Minn.----Duluth	20	11	10	11	10	13	13	11	11	11	9	11	11	132	
	Minneapolis-St. Paul	23	8	7	11	9	11	12	10	10	9	8	9	9	112
Miss.----Jackson	6	10	12	12	9	10	9	11	10	9	7	9	10	119	
Mo.----Kansas City	28	7	7	9	11	12	11	8	8	8	7	6	6	100	
	St. Louis	4	7	8	12	11	9	10	7	7	6	8	7	107	
Mont.----Great Falls	24	8	8	9	8	11	13	7	7	7	6	7	6	98	
Nebr.----Omaha	26	6	7	8	9	11	11	9	8	7	6	5	6	96	
Nev.----Reno	19	6	6	6	4	5	3	3	2	2	3	4	5	47	
N.H.----Concord	20	11	10	11	12	13	11	10	9	9	9	11	10	126	
N.J.----Atlantic City	18	11	10	12	12	11	9	9	7	7	8	9	9	114	
N. Mex.----Albuquerque	22	4	4	4	4	4	3	9	10	5	5	3	4	58	
N.Y.----Albany	15	13	11	12	14	14	10	11	10	9	9	11	11	134	
	Buffalo	8	20	16	16	16	12	9	11	11	10	11	16	20	168
N.C.----New York ¹	93	12	10	12	11	11	10	11	10	10	8	8	9	10	121
	Charlotte	22	9	10	12	9	9	9	12	10	7	7	7	111	
N. Dak.----Raleigh	17	10	11	10	9	10	10	12	11	9	8	9	7	117	
	Bismarck	22	8	7	8	7	9	12	9	9	7	6	6	7	95
Ohio----Cincinnati ¹	46	13	11	13	13	13	10	9	9	9	10	11	10	134	
	Cleveland	20	16	14	16	15	14	11	10	9	9	10	15	154	
	Columbus	22	14	12	14	13	13	12	11	9	8	8	11	12	137
Oklahoma----Oklahoma City	22	5	7	7	8	9	7	7	6	6	5	5	5	81	
Oreg.----Portland ¹	59	19	16	17	14	12	9	3	4	7	12	17	19	152	
Pa.----Philadelphia	21	11	9	12	11	12	10	10	10	8	9	10	11	119	
Pittsburgh	9	16	14	16	14	12	12	11	10	7	11	13	15	152	
R.I.----Providence	8	11	10	13	13	12	11	10	10	9	9	11	11	130	
S.C.----Columbia	14	9	10	11	9	8	9	12	12	8	6	7	9	111	
S. Dak.----Sioux Falls	16	5	6	9	8	10	11	9	10	8	6	5	6	93	
Tenn.----Memphis	11	10	10	12	10	8	8	9	7	6	5	8	10	105	
	Nashville	20	12	11	13	11	11	10	10	9	7	9	11	120	
Tex.----Dallas	21	8	8	8	9	8	6	5	6	5	6	6	6	81	
	El Paso	22	3	2	2	2	2	4	8	7	4	4	2	3	43
	Houston ¹	24	10	10	9	8	8	8	10	9	9	7	8	10	106
Utah----Salt Lake City	33	10	9	10	9	8	5	4	6	5	6	7	9	86	
Vt.----Burlington	18	14	12	13	13	13	11	12	11	12	11	14	14	149	
Va.----Norfolk	13	10	10	12	11	10	9	9	11	12	8	8	9	118	
	Richmond	24	10	9	12	10	11	10	12	12	8	8	9	9	116
Wash.----Seattle ¹	28	19	16	16	13	11	9	5	6	8	14	17	19	151	
	Spokane	14	16	13	12	8	10	8	4	5	6	9	12	16	118
W. Va.----Charleston	14	17	14	16	14	14	12	13	10	8	10	12	14	152	
Wis.----Milwaukee ¹	21	10	9	11	12	12	11	9	9	9	8	10	10	120	
Wyo.----Cheyenne ¹	26	6	7	10	10	13	11	11	10	8	6	6	5	102	
P.R.----San Juan ¹	63	20	14	14	14	16	17	19	20	18	18	19	20	208	

¹ City office data. ² Less than $\frac{1}{2}$ day.

Source: Dept. of Commerce, Weather Bureau; unpublished data.

Snow and Sleet

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No. 252. AVERAGE TOTAL SNOW AND SLEET—SELECTED CITIES

[In inches. Airport data unless otherwise noted. For period of record through 1961. T denotes trace]

STATION	Length of record (yrs.)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Ala.----Mobile	20	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.4
Alaska---Juneau	18	18.0	19.3	15.8	4.2	T	0.0	0.0	0.0	T	1.3	10.3	22.3	91.2
Ariz.----Phoenix	24	T	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0
Ark.----Little Rock	19	2.3	1.1	0.3	T	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.9	4.7
Calif.----Los Angeles ¹	21	T	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0
Calif.----Sacramento ¹	13	T	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0
Calif.----San Francisco ¹	25	T	T	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0
Colo.----Denver	27	8.6	7.9	13.0	10.2	1.9	T	0.0	0.0	1.7	3.2	7.9	5.9	60.3
Conn.----Hartford	7	12.9	9.5	18.1	3.0	0.0	0.0	0.0	0.0	0.0	T	1.6	9.0	54.1
Del.----Wilmington	14	6.0	5.1	4.7	0.1	0.0	0.0	0.0	0.0	0.0	T	1.6	3.8	21.3
D.C.----Washington	18	4.7	4.6	2.7	T	0.0	0.0	0.0	0.0	0.0	T	0.8	3.1	15.9
Fla.----Jacksonville	20	T	0.1	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.1
Fla.----Miami	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ga.----Atlanta	27	0.7	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.2
Hawaii---Honolulu ¹	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Idaho---Boise	22	7.2	4.7	2.2	0.3	T	0.0	0.0	0.0	0.0	T	1.6	4.8	20.8
Ill.----Chicago	19	7.4	7.1	6.3	0.9	T	0.0	0.0	0.0	0.0	0.3	3.3	10.8	36.1
Ind.----Peoria	18	5.0	4.8	5.0	0.5	T	0.0	0.0	0.0	0.0	T	2.1	5.6	23.0
Ind.----Indianapolis	30	4.0	4.1	3.6	0.6	T	0.0	0.0	0.0	0.0	T	2.0	4.3	18.6
Iowa---Des Moines	22	8.7	6.5	8.1	1.4	T	0.0	0.0	0.0	0.0	T	1.9	6.4	33.0
Kans.----Wichita	8	3.8	4.9	5.0	0.3	0.0	0.0	0.0	0.0	0.0	T	0.7	2.3	17.0
Ky.----Louisville	14	4.2	3.8	3.6	0.1	0.0	0.0	0.0	0.0	0.0	T	1.2	2.8	15.7
La.----New Orleans ¹	47	T	0.1	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.1
Maine---Portland	21	10.5	18.5	14.0	2.5	0.3	0.0	0.0	0.0	T	T	3.4	12.5	70.7
Md.----Baltimore ¹	68	6.1	6.6	4.8	0.6	T	0.0	0.0	0.0	0.0	0.1	6.2	3.9	22.7
Mass.----Boston	26	12.9	10.5	7.0	0.7	T	0.0	0.0	0.0	0.0	T	1.5	6.7	40.2
Mich.----Detroit	28	8.1	7.6	5.3	1.3	T	0.0	0.0	0.0	0.0	T	2.9	6.4	31.6
Minn.----Sault Ste. Marie	20	20.3	15.1	15.4	4.7	0.5	T	0.0	0.0	0.2	2.1	14.0	25.5	97.8
Minn.----Duluth	18	15.6	12.7	12.9	7.6	1.1	T	0.0	0.0	T	1.2	9.9	14.5	75.5
Minn.----Minneapolis	23	6.2	7.5	10.1	2.3	0.2	0.0	0.0	0.0	0.1	0.4	6.6	7.4	40.8
Miss.----Jackson	6	T	1.9	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	T	1.9
Mo.----Kansas City	28	5.1	3.8	4.3	0.7	T	0.0	0.0	0.0	0.0	T	1.1	4.7	19.7
Mo.----St. Louis	25	3.9	3.9	4.0	0.1	T	0.0	0.0	0.0	0.0	T	1.3	3.2	17.3
Mont.----Great Falls	24	8.1	9.9	9.5	4.5	1.5	0.5	T	0.0	1.4	2.7	8.4	7.5	54.0
Nebr.----Omaha	26	8.4	7.3	7.3	1.0	0.1	0.0	0.0	0.0	T	0.3	2.3	5.5	32.2
Nev.----Reno	10	6.8	5.0	4.8	1.0	0.1	T	0.0	0.0	T	0.3	2.0	3.4	23.4
N.H.----Concord	20	18.3	13.1	11.6	2.0	0.3	0.0	0.0	0.0	T	3.6	12.7	61.6	
N.J.----Atlantic City	17	4.2	3.4	3.7	0.3	0.0	0.0	0.0	0.0	T	0.3	2.4	14.3	
N. Mex.----Albuquerque	22	1.9	1.6	1.8	0.4	T	0.0	0.0	0.0	T	1.7	3.1	10.5	
N.Y.----Albany	15	15.9	14.4	12.0	2.0	T	0.0	0.0	0.0	0.0	0.1	2.9	12.1	61.2
N.Y.----Buffalo	8	26.3	21.5	17.0	4.6	T	0.0	0.0	0.0	T	0.3	13.7	23.4	106.8
N.Y.----New York ²	93	7.7	8.6	5.4	1.0	T	0.0	0.0	0.0	0.0	T	1.1	6.2	30.0
N.C.----Charlotte	22	1.4	0.9	1.8	T	0.0	0.0	0.0	0.0	0.0	T	0.4	4.0	
N.C.----Raleigh	17	2.4	1.7	1.1	T	0.0	0.0	0.0	0.0	0.0	T	1.1	6.3	
N. Dak.----Bismarck	22	6.8	6.0	8.1	3.1	0.9	T	0.0	0.0	0.2	1.3	5.5	5.1	37.0
Ohio----Cincinnati ¹	46	5.1	4.0	3.1	0.5	T	0.0	0.0	0.0	0.0	0.1	1.5	4.4	18.7
Ohio----Cleveland	20	9.8	9.6	10.8	2.7	T	0.0	0.0	0.0	T	0.5	6.2	10.5	50.1
Ohio----Columbus	14	0.3	5.0	4.3	0.8	T	0.0	0.0	0.0	0.0	T	3.1	6.7	26.2
Oklahoma----Oklahoma City	22	3.4	2.5	1.7	T	0.0	0.0	0.0	0.0	T	0.3	1.6	9.5	
Oreg.----Portland ¹	59	5.2	1.7	0.6	0.1	T	0.0	0.0	0.0	0.0	T	0.1	1.2	8.9
Pa.----Philadelphia	19	5.4	5.3	4.0	T	0.0	0.0	0.0	0.0	0.0	T	0.9	4.0	19.6
Pa.----Pittsburgh	9	9.6	8.4	8.6	2.5	T	0.0	0.0	0.0	0.0	0.2	4.0	8.2	41.5
R.I.----Providence	8	10.0	6.8	13.2	1.0	0.0	0.0	0.0	0.0	0.0	T	0.7	6.7	38.4
S.C.----Columbia	14	0.2	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	T	0.7	1.4	
S. Dak.----Sioux Falls	16	5.8	8.7	12.8	2.8	T	0.0	0.0	0.0	0.0	0.2	5.2	6.1	41.1
Tenn.----Memphis	11	1.9	1.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	4.3	
Tenn.----Nashville	20	3.4	2.5	1.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.3	9.9
Tex.----Dallas	21	1.1	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.9	
Tex.----El Paso	22	1.5	0.7	0.5	T	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.1	4.6
Tex.----Houston	23	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.3
Utah----Salt Lake City	33	13.2	9.5	8.1	3.1	0.2	T	0.0	0.0	T	0.7	6.4	10.4	51.6
Vt.----Burlington	18	18.3	18.1	10.7	1.8	T	0.0	0.0	0.0	T	5.7	14.5	69.1	
Va.----Norfolk	13	2.1	0.8	0.7	T	0.0	0.0	0.0	0.0	0.0	0.0	1.6	5.2	
Va.----Richmond	24	4.4	2.6	2.6	0.1	0.0	0.0	0.0	0.0	0.0	0.6	1.8	12.1	
Wash.----Seattle ¹	28	4.7	1.4	0.8	T	0.0	0.0	0.0	0.0	0.0	T	0.8	0.7	8.4
Wash.----Spokane	14	20.2	10.1	5.3	0.2	T	0.0	0.0	0.0	0.0	0.6	6.0	15.6	58.0
W. Va.----Charleston	14	7.3	5.2	4.4	0.6	0.0	0.0	0.0	0.0	0.0	0.3	3.4	2.8	24.0
Wis.----Milwaukee	21	12.5	7.4	8.8	0.9	T	0.0	0.0	0.0	T	3.3	9.2	42.1	
Wyo.----Cheyenne	26	6.2	6.3	12.8	0.3	4.4	0.5	0.0	0.0	0.7	3.1	7.1	5.6	57.0
P.R.----San Juan ¹	63	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

¹ City office data.² New York-Central Park data.

No. 253. AVERAGE PERCENTAGE OF POSSIBLE SUNSHINE—SELECTED CITIES

[Airport data unless otherwise noted. For period of record through 1961]

STATION	Length of record (yrs.)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Ala. Mobile ¹	48	51	54	60	67	71	68	59	63	64	70	62	46	61
Alaska Juneau	16	29	31	37	37	35	34	29	30	25	18	21	18	30
Ariz. Phoenix	66	77	79	83	88	93	94	84	84	89	88	84	77	86
Ark. Little Rock	19	43	50	54	60	63	70	68	72	68	69	75	47	61
Calif. Los Angeles ¹	21	71	72	74	67	68	69	81	82	81	74	79	72	74
Sacramento ¹	13	41	59	63	73	83	91	97	95	93	87	66	46	78
San Francisco ¹	25	54	60	67	71	71	74	65	64	72	70	64	53	66
Colo. Denver	12	71	70	68	62	63	72	71	73	70	73	65	69	69
Conn. Hartford	7	53	49	53	47	55	57	57	59	58	54	46	46	54
Del. Wilmington ²	19	48	54	57	57	58	64	63	61	59	53	52	57	57
D.C. Washington	13	47	51	54	55	56	65	64	61	64	59	54	49	57
Fla. Jacksonville	11	59	63	63	68	68	58	59	57	46	52	58	53	59
Miami ¹	18	70	75	73	73	68	62	61	64	58	58	68	65	66
Ga. Atlanta	27	47	51	56	65	69	67	62	66	64	67	58	48	60
Hawaii Honolulu ¹	9	66	63	73	73	75	75	77	76	77	72	67	61	71
Idaho Boise	22	41	49	58	67	69	76	89	86	81	67	47	39	67
Ill. Chicago	19	43	47	52	53	59	67	69	68	66	64	44	43	58
Peoria	18	44	47	52	55	59	65	69	69	68	64	47	42	58
Ind. Indianapolis	19	38	51	53	55	61	69	73	74	71	67	46	44	60
Iowa Des Moines	11	50	54	52	57	61	67	71	71	69	66	57	46	61
Kans. Wichita	8	60	56	58	61	62	73	75	77	75	67	69	63	67
Ky. Louisville	14	36	44	49	54	63	68	68	69	69	70	62	50	48
La. New Orleans ¹	46	49	51	57	65	69	67	61	64	65	72	62	48	61
Maine Portland	21	54	60	58	56	56	62	67	66	63	58	48	56	59
Md. Baltimore ¹	57	48	50	59	59	61	64	65	63	64	63	55	49	59
Mass. Boston	26	47	56	57	55	57	63	66	66	64	60	53	54	59
Mich. Detroit	28	31	43	50	52	59	65	70	66	61	56	34	32	54
Sault Ste. Marie	20	33	43	51	53	52	55	62	58	44	44	22	25	45
Minn. Duluth	11	52	56	60	55	58	63	69	62	51	52	37	44	56
Minneapolis														
St. Paul	23	51	57	54	56	58	61	69	66	61	58	40	41	58
Miss. Jackson	6	43	42	53	61	65	60	64	57	57	54	51	46	55
Mo. Kansas City	28	51	55	56	59	62	69	76	73	70	68	58	50	64
St. Louis	3	49	39	52	59	60	67	69	68	69	54	50	35	53
Mont. Great Falls	20	54	61	66	64	64	64	80	77	67	61	47	50	64
Nebr. Omaha	26	54	54	52	59	60	65	76	71	69	68	53	48	79
Nev. Reno	19	64	68	71	77	78	83	91	93	91	80	71	61	78
N.H. Concord	20	48	52	49	48	50	57	62	59	54	52	41	47	52
N.J. Atlantic City	1	51	44	58	62	51	59	58	55	64	62	60	48	57
N. Mex. Albuquerque	22	70	72	73	75	79	84	76	70	72	79	78	70	77
N.Y. Albany	23	44	51	53	52	56	61	65	62	58	55	39	39	54
Buffalo	18	34	41	48	51	58	68	70	68	62	55	30	30	54
New York ³	85	50	56	59	60	61	65	66	64	64	61	53	50	59
N.C. Charlotte	11	56	57	60	68	68	72	70	70	67	70	62	59	66
Raleigh	7	61	57	60	63	58	61	69	64	59	64	61	61	61
N. Dak. Bismarck	22	54	56	57	59	61	62	75	72	64	60	46	49	61
Ohio Cincinnati ¹	46	41	45	51	56	62	69	71	68	68	60	46	40	53
Cleveland	20	27	34	45	50	58	65	68	66	61	55	33	28	51
Columbus	10	37	41	46	52	60	68	69	71	72	61	45	34	57
Oklahoma City	9	56	57	60	60	64	75	77	80	79	67	64	59	67
Oreg. Portland ¹	12	22	30	34	47	48	48	69	61	58	38	32	21	45
Pa. Philadelphia	19	48	54	57	57	58	64	63	61	61	59	53	52	57
Pittsburgh	9	39	38	50	50	56	65	63	69	60	49	39	39	55
R.I. Providence	8	55	56	58	54	58	60	61	60	60	58	53	55	57
S.C. Columbia	8	63	62	63	72	67	70	69	72	64	65	66	67	66
S. Dak. Sioux Falls ²	19	55	59	59	61	57	61	71	71	65	63	56	53	62
Tenn. Memphis	11	43	49	52	61	68	72	73	77	74	70	60	49	64
Nashville	20	37	45	51	59	61	67	64	64	65	63	53	40	57
Tex. Dallas	21	48	50	56	58	63	75	78	77	74	65	63	54	66
E! Paso	19	75	80	82	86	88	88	78	80	83	83	77	82	82
Houston ¹	23	46	45	51	54	63	70	69	68	64	67	57	48	59
Utah Salt Lake City	24	48	52	61	67	73	79	82	82	83	72	55	46	68
Vt. Burlington	18	37	44	49	45	52	58	62	61	53	48	30	31	49
Va. Norfolk	8	60	58	61	66	69	66	62	63	60	63	62	63	63
Richmond	11	50	53	57	62	65	68	70	64	65	59	54	51	61
Wash. Seattle ¹	28	23	33	42	47	52	49	63	56	53	36	29	24	45
Spokane	14	26	36	52	62	62	67	82	78	71	51	33	22	57
W.Va. Charleston ²	64	30	36	42	49	56	60	63	60	60	58	37	29	48
Wis. Milwaukee	21	42	44	49	53	57	62	70	66	62	57	42	39	55
Wyo. Cheyenne	26	62	63	63	58	57	66	69	66	70	69	62	58	64
P.R. San Juan	6	69	72	71	63	62	54	62	63	52	62	62	58	63

¹ City office data.² Data not available; figures are for a nearby station.³ New York-Central Park data.

No. 254. AVERAGE WIND SPEED—SELECTED CITIES

[In miles per hour. Airport data unless otherwise noted. For period of record through 1961]

STATION	Length of record (yrs.)	Wind Speed												Annual	
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		
Ala.----Mobile	13	11.6	11.7	11.0	11.0	9.6	8.5	7.6	7.7	9.1	9.3	10.7	11.0	10.0	
Alaska----Juneau	18	8.3	8.5	8.0	8.8	8.0	7.8	7.7	7.6	7.7	9.3	8.8	9.4	8.4	
Ariz.----Phoenix	16	4.4	5.0	5.8	6.0	6.1	6.1	6.3	5.7	5.4	5.0	4.5	4.2	5.4	
Ark.----Little Rock	19	9.0	9.4	10.2	9.0	8.4	7.9	7.3	6.9	7.3	7.1	8.4	8.5	8.4	
Calif.----Los Angeles ¹	21	6.8	6.9	6.9	6.6	6.3	5.7	5.4	5.3	5.3	5.7	6.5	6.8	6.2	
	Sacramento ¹	13	9.4	9.1	10.2	9.6	10.2	10.0	10.1	9.7	8.7	7.9	7.2	9.2	
	San Francisco ¹	25	6.8	7.4	8.5	9.5	10.3	11.0	11.2	10.6	9.1	7.6	6.3	6.5	
Colo.----Denver	13	9.8	10.0	10.7	11.0	10.0	9.8	9.0	8.6	8.6	8.6	9.5	9.8	9.6	
Conn.----Hartford	7	10.8	10.7	11.3	11.5	10.4	9.2	8.1	8.2	8.2	9.2	9.5	9.6	9.7	
Del.----Wilmington	13	9.5	10.0	11.0	10.3	8.7	8.3	7.5	7.2	7.5	7.9	8.7	8.7	8.8	
D.C.----Washington	13	10.7	11.0	11.8	11.3	9.7	9.3	8.5	8.3	8.6	9.0	9.5	9.6	9.8	
Fla.----Jacksonville	12	8.5	9.8	9.6	9.6	9.2	8.8	7.9	7.8	9.1	9.2	8.4	8.4	8.9	
	Miami	12	9.3	9.9	9.9	10.2	9.1	8.1	7.7	7.2	8.1	8.6	9.0	8.5	8.8
Ga.----Atlanta	23	11.4	11.8	11.8	10.9	9.1	8.4	7.8	7.5	8.4	8.7	9.6	10.3	9.6	
Hawaii----Honolulu ¹	12	10.0	11.0	11.5	12.2	12.9	13.3	13.7	14.	11.8	11.0	11.4	11.4	12.0	
Idaho----Boise	22	8.9	9.8	10.8	10.4	9.7	9.4	8.7	8.4	8.5	9.0	8.9	8.7	9.3	
Ill.----Chicago	19	11.1	11.4	11.6	11.4	10.2	9.0	7.8	7.6	8.7	9.4	11.4	11.0	10.1	
	Peoria	18	11.4	11.9	12.6	12.6	10.7	9.4	8.2	8.0	9.1	9.7	11.9	11.2	10.6
Ind.----Indianapolis	13	11.9	12.1	13.0	12.7	10.8	9.0	7.9	7.5	8.7	9.8	11.9	11.4	10.6	
Iowa----Des Moines	12	12.3	12.5	14.2	14.5	12.4	11.3	9.5	9.2	10.4	11.3	13.4	12.6	12.0	
Kans.----Wichita	8	13.1	13.6	14.9	15.2	13.8	13.1	11.5	12.1	12.8	13.0	13.4	12.8	13.3	
Ky.----Louisville	14	10.0	9.9	10.6	10.4	8.1	7.3	6.7	6.0	6.9	7.2	9.4	9.2	8.5	
La.----New Orleans ¹	46	7.5	7.6	7.8	7.5	6.7	5.9	5.6	5.6	6.7	6.9	7.2	7.3	6.9	
Maine----Portland	21	9.5	9.7	10.3	10.2	9.2	8.3	7.7	7.6	7.9	8.8	9.1	9.2	9.0	
Md.----Baltimore ¹	24	10.3	10.8	11.5	11.3	10.0	9.5	8.8	8.6	8.9	9.2	10.0	9.9	9.9	
Mass.----Boston	4	14.6	14.4	14.2	12.8	11.8	11.4	10.2	10.3	10.8	12.5	13.5	13.9	12.5	
Mich.----Detroit	28	11.4	11.4	11.5	11.1	9.7	9.1	8.2	8.0	8.9	9.5	11.5	11.3	10.1	
	Sanit Ste. Marie	20	10.1	10.3	10.8	11.1	10.5	9.1	8.4	8.3	9.3	9.8	10.6	10.4	9.9
Minn.----Duluth	12	12.6	13.0	13.3	14.9	13.6	11.6	10.6	10.4	11.9	12.4	13.6	12.3	12.5	
	Minneapolis-St. Paul	23	10.5	10.8	11.5	12.6	11.7	11.1	9.4	9.2	10.4	10.7	11.5	10.7	10.8
Miss.----Jackson	6	7.8	8.0	8.1	7.7	6.3	5.4	4.6	4.4	5.5	5.2	6.8	7.1	6.4	
Mo.----Kansas City	22	10.1	10.6	12.0	10.6	10.3	10.4	9.1	8.9	9.4	9.2	10.8	10.1	10.2	
	St. Louis	12	10.0	10.8	11.7	11.4	9.6	8.3	7.3	6.8	7.9	8.1	10.0	10.2	9.3
Mont.----Great Falls	20	16.8	17.5	14.2	13.9	12.0	12.1	10.9	10.9	12.2	14.4	16.2	17.3	13.9	
Nebr.----Omaha	26	11.4	11.8	13.2	13.7	11.8	11.0	9.4	9.7	10.2	10.5	11.8	11.3	11.3	
Nev.----Reno	19	6.1	6.4	7.8	8.0	7.7	6.3	6.5	6.2	5.5	5.5	5.1	4.9	6.4	
N.H.----Concord	20	7.3	7.0	8.2	7.8	7.0	6.3	5.6	5.2	5.4	6.0	6.7	6.9	6.7	
N.J.----Atlantic City	3	13.6	13.8	14.2	13.6	11.6	10.6	9.6	9.0	10.3	12.2	13.2	12.7	12.0	
N. Mex.----Albuquerque	22	8.0	8.9	10.1	10.9	10.4	9.8	9.2	8.0	8.5	8.2	7.8	7.4	8.9	
N.Y.----Albany	23	9.9	10.6	10.6	10.5	9.1	8.1	7.3	6.8	7.3	8.0	8.9	8.9	8.8	
	Buffalo	22	14.9	14.7	14.7	13.7	12.4	11.9	11.1	10.6	11.4	12.1	13.9	14.4	13.0
	New York ²	42	11.1	11.1	11.3	10.8	9.0	8.4	7.8	7.9	8.3	9.3	10.2	10.6	9.7
N.C.----Charlotte	12	8.5	8.7	9.3	9.5	7.7	7.0	6.7	6.8	7.4	7.5	7.5	7.4	7.8	
	Raleigh	12	8.3	8.7	9.3	9.3	7.5	6.8	6.5	6.5	6.9	7.2	7.3	7.5	7.7
N. Dak.----Bismarck	22	10.2	10.4	11.7	13.1	12.7	11.8	10.0	10.3	10.9	10.5	11.0	9.8	11.0	
Ohio----Cincinnati ¹	40	8.3	8.5	9.1	8.5	6.8	6.6	5.3	5.1	5.5	6.1	7.9	8.0	7.1	
	Cleveland	20	12.6	12.9	13.1	12.4	10.8	9.7	9.0	8.6	9.5	10.3	12.8	12.8	11.2
	Columbus	12	9.9	10.0	10.6	10.0	8.1	6.9	6.0	5.6	6.3	7.1	9.4	9.2	8.3
Oklahoma----Oklahoma City	13	14.8	14.8	16.2	16.2	14.4	14.0	12.1	11.6	12.7	13.1	13.8	14.0	14.0	
Oreg.----Portland ¹	13	10.4	10.8	8.4	7.1	6.5	6.5	7.2	6.6	5.9	6.2	7.9	9.5	7.6	
Pa.----Philadelphia	21	10.3	11.0	11.6	11.2	9.7	8.9	8.2	7.7	8.1	8.9	9.5	10.0	9.6	
	Pittsburgh	9	10.9	11.2	11.5	11.2	9.5	8.5	7.7	7.4	8.1	8.8	10.4	10.8	9.7
R.I.----Providence	8	11.9	11.8	12.7	13.1	11.7	10.8	10.2	10.1	10.2	10.5	11.1	11.1	11.3	
S.C.----Columbia	13	7.1	7.6	8.6	8.9	7.0	6.8	6.7	5.9	6.2	6.1	6.3	6.9	6.9	
S. Dak.----Sioux Falls	13	10.9	11.0	12.5	13.5	12.0	10.5	9.2	9.2	10.3	10.8	10.2	10.7	11.1	
Tenn.----Memphis	13	11.4	11.1	11.7	11.2	9.3	8.2	7.7	7.0	7.9	8.0	9.8	10.3	9.5	
	Nashville	20	9.0	9.1	9.6	9.1	7.3	6.7	6.0	5.6	6.1	6.0	8.2	7.6	7.6
Tex.----Dallas	21	10.2	11.0	12.6	13.3	12.1	12.2	10.0	9.6	9.4	9.1	10.2	10.2	10.8	
	El Paso	19	10.3	11.3	13.8	13.1	12.3	11.2	9.9	9.4	9.3	9.2	9.8	9.7	10.7
	Houston ¹	23	10.7	11.2	11.7	12.0	10.7	9.7	8.3	8.3	8.8	9.3	10.3	10.2	10.1
Utah----Salt Lake City	32	7.4	8.2	9.1	9.4	9.5	9.4	9.4	9.4	9.7	9.1	8.6	7.7	7.4	
Vt.----Burlington	18	9.9	9.7	9.5	9.6	9.1	8.5	8.0	7.5	8.4	8.8	9.9	10.1	9.1	
Va.----Norfolk	13	11.4	11.8	12.3	11.8	9.6	9.0	8.3	8.6	9.4	10.4	10.6	10.6	10.3	
	Richmond	13	8.1	8.5	9.0	9.0	7.7	7.3	7.0	6.7	7.0	7.2	7.5	7.4	7.7
Wash.----Seattle	11	7.8	8.0	8.6	8.3	7.7	7.6	7.2	6.8	6.5	6.8	7.1	7.6	7.5	
	Spokane	14	7.9	8.9	9.3	9.3	8.2	8.4	7.7	7.6	7.6	7.5	8.4	8.2	8.2
W. Va.----Charleston	14	7.9	8.2	9.0	8.2	6.5	5.8	5.3	4.4	4.9	5.3	7.2	7.3	6.7	
	Milwaukee	21	13.1	13.8	13.9	13.8	12.7	10.8	9.7	9.8	11.2	11.9	13.6	13.1	12.2
Wyo.----Cheyenne	26	14.4	14.7	13.9	13.1	12.1	13.3	9.8	9.8	10.6	11.4	13.9	14.0	12.6	
P.R.----San Juan	6	8.9	9.3	9.1	8.4	8.1	8.4	9.5	9.0	7.5	6.7	7.1	8.2	8.4	

¹ City office data.² New York-Central Park data.

Area, Geography, and Climate

No. 255. AVERAGE RELATIVE HUMIDITY,

[Airport data except as noted. Eastern standard time. For period of record through 1961. Hours selected humidity observations were made]

STATION	Length of rec- ord (yrs.)	JAN.		FEB.		MAR.		APR.		MAY		JUNE		
		7:00 a.m.	1:00 p.m.											
		7:00 a.m.	1:00 p.m.											
Ala. Mobile	20	87	62	86	60	85	57	87	55	87	55	88	58	
Alaska Juneau	18	80	80	81	79	82	77	86	72	88	72	87	72	
Ariz. Phoenix	22	74	47	71	41	61	33	53	27	43	20	39	19	
Ark. Little Rock	17	80	66	80	61	78	57	80	64	84	57	85	56	
Calif. Los Angeles ¹	21	64	45	70	46	74	47	78	50	81	52	85	54	
	Sacramento ¹	22	90	82	88	75	85	64	85	57	82	51	77	45
	San Francisco ¹	22	87	78	86	75	84	69	86	69	87	67	88	60
Colo. Denver	1	59	43	71	42	73	49	65	38	78	54	72	34	
Conn. Hartford	2	76	59	75	60	75	54	74	52	80	54	77	52	
Del. Wilmington	14	76	62	77	60	75	55	75	52	77	54	79	53	
D.C. Washington	20	73	57	71	52	71	49	70	46	75	52	76	53	
Fla. Jacksonville	25	88	56	86	52	85	49	84	47	82	48	84	54	
	Miami	19	86	55	85	56	83	55	81	56	81	59	83	63
Ga. Atlanta	1	72	50	81	61	78	55	74	49	83	60	86	64	
Hawaii Honolulu	15	80	80	78	78	77	74	75	71	75	69	74	68	
Idaho Boise	2	82	76	79	71	75	61	70	45	70	46	54	33	
Ill. Chicago	19	81	70	80	67	78	60	75	53	74	53	77	53	
	Peoria	19	82	72	82	69	81	61	79	55	80	56	83	59
Ind. Indianapolis	19	83	72	83	68	82	61	80	57	80	56	83	58	
Iowa Des Moines	21	79	71	81	70	82	64	79	51	81	56	84	60	
Kans. Wichita	8	81	64	82	62	78	55	78	50	84	57	85	53	
Ky. Louisville	1	85	66	85	73	84	70	82	62	88	60	92	64	
La. New Orleans ¹	38	85	67	85	64	83	60	84	59	83	59	83	60	
Maine Portland	20	80	65	80	61	77	60	75	57	75	59	78	60	
Md. Baltimore ¹	8	75	59	73	59	74	52	75	50	76	52	78	53	
Mass. Boston	10	70	59	71	59	69	55	70	55	69	54	70	56	
Mich. Detroit	28	81	70	81	67	79	61	75	53	72	52	74	53	
Minn. Duluth	19	78	73	79	65	82	67	80	59	79	55	85	61	
	Minneapolis-St. Paul	21	81	71	81	68	81	63	76	52	76	50	80	56
Miss. Jackson	6	83	61	84	61	83	56	86	53	88	56	91	58	
Mo. Kansas City	26	78	64	77	61	75	55	74	51	79	54	79	54	
	St. Louis	2	80	67	75	69	79	59	74	54	80	56	80	56
Mont. Great Falls	20	66	62	69	62	71	58	68	46	70	45	72	47	
Nebr. Omaha	7	78	66	80	65	78	59	75	47	78	52	82	54	
Nev. Reno	22	81	67	80	60	76	46	73	37	75	34	75	31	
N.H. Concord	20	78	60	78	56	75	53	74	49	74	48	78	51	
N.J. Atlantic City	3	78	58	78	58	78	54	77	48	79	51	81	53	
N. Mex. Albuquerque	1	67	48	65	43	55	36	48	28	40	23	44	26	
N.Y. Albany	15	79	66	78	62	77	58	74	51	73	51	76	52	
	Buffalo	1	79	72	82	75	78	67	82	74	80	60	80	67
	New York ²	42	68	61	68	59	68	56	68	53	71	54	74	56
N.C. Charlotte	1	76	46	81	60	81	54	80	50	86	57	95	64	
	Raleigh	17	81	56	81	53	79	49	79	47	82	51	83	52
N. Dak. Bismarck	19	77	71	78	70	83	68	83	52	79	48	81	55	
Ohio Cincinnati	14	81	69	80	64	77	57	75	53	78	52	81	54	
	Cleveland	1	76	67	85	71	80	66	83	66	74	58	83	61
	Columbus	2	77	68	81	71	75	62	78	58	84	61	88	56
Oklahoma Oklahoma City	7	83	66	84	66	78	57	78	52	86	60	88	59	
Oreg. Portland ¹	21	86	81	87	80	87	71	87	67	87	66	86	66	
Pa. Philadelphia	2	76	60	74	60	72	57	73	49	78	58	77	57	
	Pittsburgh	2	76	66	77	68	77	61	73	54	78	57	83	58
R.I. Providence	8	70	58	73	57	71	53	73	54	71	53	77	56	
S.C. Columbia	14	85	54	86	53	83	49	81	45	81	47	82	48	
S. Dak. Sioux Falls	13	71	63	75	63	77	64	76	47	78	49	82	53	
Tenn. Memphis	22	81	65	81	62	79	57	79	53	82	55	84	56	
	Nashville	22	84	67	83	62	81	57	81	50	84	53	84	53
Tex. Dallas	17	81	62	81	61	77	54	82	56	85	56	83	53	
	El Paso	15	63	44	54	36	45	29	40	26	40	23	44	26
	Houston ¹	19	86	65	88	65	83	58	89	60	92	60	91	59
Utah Salt Lake City	2	80	69	83	72	76	53	63	40	62	33	52	24	
Vt. Burlington	20	79	68	78	65	76	60	74	55	72	53	76	55	
Va. Norfolk	13	77	60	78	58	74	54	74	50	77	56	78	56	
	Richmond	27	81	58	80	53	78	48	75	46	78	49	80	52
Wash. Seattle ¹	22	85	80	85	77	84	74	80	75	83	85	82	83	
	Spokane	2	88	87	84	81	81	70	75	57	84	61	72	44
W. Va. Charleston	14	77	63	76	59	74	53	74	48	82	50	86	55	
	Milwaukee	3	79	70	81	71	83	66	77	58	81	58	81	58
Wyo. Cheyenne ¹	2	56	43	66	52	71	55	67	42	75	45	65	38	
P.R. San Juan	6	87	66	84	62	83	60	81	64	81	66	82	67	

¹ City office data.² New York-Central Park data.

Source: Dept. of Commerce, Weather Bureau; unpublished data.

Humidity

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PERCENT—SELECTED CITIES

to give, for most of country, approximation of average highest and average lowest humidity values. Relative on the half-hour prior to 1957]

JULY		AUG.		SEPT.		OCT.		NOV.		DEC.		ANNUAL		STATION	
7:00 a.m.	1:00 p.m.														
90	64	91	60	90	61	87	53	84	55	86	62	87	59	Ala.... Mobile.	
88	79	90	82	91	86	88	55	85	84	82	82	86	79	Alaska. Juneau.	
52	31	61	36	56	30	60	32	65	35	70	44	59	33	Ariz.... Phoenix.	
86	56	86	56	85	53	83	51	81	54	81	62	83	57	Ark.... Little Rock.	
84	49	84	49	78	47	76	46	60	38	62	42	75	47	Calif.... Los Angeles. ¹	
76	47	78	50	75	47	77	54	85	68	89	81	82	60	Sacramento. ¹	
90	69	90	70	87	68	86	69	86	72	87	77	87	71	San Francisco.	
73	32	70	39	75	48	63	34	70	52	60	42	70	42	Colo.... Denver.	
83	54	85	57	88	59	87	53	82	56	79	59	80	56	Conn.... Hartford.	
81	54	85	57	87	56	85	55	82	57	78	60	80	56	Del.... Wilmington.	
77	53	81	55	82	55	82	54	77	52	72	55	76	53	D.C.... Washington.	
86	57	89	59	90	61	90	57	89	55	88	58	87	54	Fla.... Jacksonville.	
84	64	86	63	88	65	88	64	87	60	86	59	85	60	Miami.	
87	62	88	63	86	58	77	42	84	54	81	61	81	57	Ga.... Atlanta.	
74	69	75	70	75	70	76	72	77	74	77	75	76	73	Hawaii. Honolulu.	
45	31	54	37	60	42	70	52	76	64	79	73	68	53	Idaho. Boise.	
78	51	83	53	82	51	80	52	79	62	80	68	79	58	Ill.... Chicago.	
84	55	87	56	86	53	84	53	82	64	83	71	83	60	Pearl.	
84	55	87	54	87	52	87	53	84	64	83	71	84	60	Ind.... Indianapolis.	
85	56	88	59	84	54	80	52	80	53	81	70	82	61	Iowa.... Des Moines.	
81	50	79	48	78	49	81	54	76	52	80	59	80	54	Kans.... Wichita.	
89	64	91	60	91	60	87	56	84	67	82	70	87	64	Ky.... Louisville.	
84	63	85	63	85	62	82	59	82	60	85	66	84	62	La.... New Orleans. ¹	
80	59	83	58	86	61	86	60	86	66	82	62	81	61	Maine. Portland.	
81	54	85	58	87	57	84	55	85	50	84	77	58	79	55	Md.... Baltimore. ¹
73	54	75	50	78	57	78	57	75	57	69	57	72	56	Mass.... Boston.	
75	51	81	53	83	54	83	55	80	64	81	70	79	59	Mich.... Detroit.	
89	62	91	62	92	67	89	66	87	76	86	79	88	68	Sault Ste. Marie.	
88	61	91	63	92	64	87	62	85	75	80	74	84	65	Minn.... Duluth.	
82	53	85	56	85	55	81	56	82	67	82	73	81	60	Minneapolis-St. Paul.	
91	59	92	57	92	59	93	55	85	56	84	60	87	59	Miss.... Jackson.	
76	49	78	51	79	49	76	49	74	55	77	63	77	55	Mo.... Kansas City.	
85	61	88	59	86	57	83	57	75	58	82	67	81	59	St. Louis.	
63	36	62	37	64	43	63	47	66	57	65	59	67	50	Mont.... Great Falls.	
85	54	85	50	82	54	80	51	77	58	78	64	80	57	Nebr.... Omaha.	
72	26	74	27	75	32	78	42	80	54	82	67	77	44	Nev.... Reno.	
80	50	86	52	88	54	86	51	83	59	79	58	80	53	N.H.... Concord.	
86	59	89	61	89	57	86	56	84	56	79	59	82	56	N.J.... Atlantic City.	
60	37	67	44	67	42	49	31	71	54	72	54	59	39	N.Mex.... Albuquerque.	
77	51	84	53	88	55	87	55	81	63	80	65	80	57	N.Y.... Albany.	
87	67	89	68	83	59	79	58	78	62	79	69	81	67	Buffalo.	
76	57	78	59	80	59	76	56	73	60	69	61	72	58	New York. ²	
96	60	93	62	88	50	84	39	84	50	79	56	85	54	N.C.... Charlotte.	
87	56	91	58	89	58	91	54	79	51	76	54	83	53	Raleigh.	
85	52	84	49	84	50	82	52	82	67	79	71	81	59	N.Dak.... Bismarck.	
84	54	87	52	85	50	83	52	78	58	80	66	81	57	Ohio.... Cincinnati.	
85	59	89	62	78	59	70	56	73	60	73	65	79	63	Cleveland.	
89	57	92	59	91	56	89	53	85	64	76	67	84	61	Columbus.	
85	56	85	52	84	54	83	55	77	52	79	61	83	58	Oklahoma City.	
84	62	86	65	88	67	91	79	89	82	88	84	87	73	Oreg.... Portland. ¹	
81	57	80	61	84	59	83	55	82	56	76	59	78	57	Pa.... Philadelphia.	
87	58	91	61	89	58	83	55	79	62	76	66	81	60	Pittsburgh.	
80	57	81	59	85	58	83	56	78	56	73	57	76	56	R.I.... Providence.	
86	52	89	53	90	55	91	50	88	48	85	53	86	51	S.C.... Columbia.	
83	51	85	53	80	50	75	49	74	55	75	64	78	55	S.Dak.... Sioux Falls.	
85	56	87	55	86	53	85	50	81	54	81	62	83	57	Tenn.... Memphis.	
86	55	89	55	88	51	88	52	84	57	84	65	85	56	Nashville.	
79	49	77	47	80	48	82	50	80	52	78	58	80	54	Tex.... Dallas.	
59	36	63	39	57	37	58	37	55	36	61	41	53	34	El Paso.	
92	58	93	58	90	60	89	56	86	57	86	64	89	60	Houston. ¹	
46	22	58	30	67	39	69	44	78	64	82	74	68	47	Utah.... Salt Lake City.	
77	54	81	55	84	59	83	60	81	67	79	68	78	60	Vt.... Burlington.	
82	58	85	62	84	61	84	62	81	56	78	58	79	58	Va.... Norfolk.	
84	55	87	57	89	55	89	53	84	50	82	55	82	53	Richmond.	
84	62	86	67	89	71	90	79	89	81	86	83	86	72	Wash.... Seattle. ¹	
54	34	60	43	66	43	80	66	84	79	85	84	76	62	Charleston.	
89	63	92	56	90	52	88	53	79	54	77	60	82	56	Spokane.	
85	59	86	61	86	58	83	62	81	68	81	71	82	63	W. Va.... Charleston.	
86	31	62	32	67	36	58	38	68	43	62	48	64	42	Wis.... Milwaukee.	
81	67	82	66	83	67	85	67	87	67	87	68	84	66	Wyo.... Cheyenne. ¹	
81	67	82	66	83	67	85	67	87	67	87	68	84	66	P.R.... San Juan.	

Area, Geography, and Climate

No. 256. NORMAL MONTHLY AND ANNUAL DEGREE DAYS, 65° BASE—SELECTED CITIES

[Airport data unless otherwise noted. Based on standard 30-year period, 1931 to 1960. For definition of "degree day," see text, p. 166]

STATION	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Ala.--- Mobile	415	300	211	42	0	0	0	0	0	22	213	357	1,500
Alaska--- Juneau	1,237	1,070	1,073	810	601	381	301	338	483	725	921	1,135	9,075
Ariz.--- Phoenix	474	328	217	75	0	0	0	0	0	22	234	415	1,765
Ark.--- Little Rock	756	577	434	126	9	0	0	0	9	127	465	716	3,219
Calif.--- Los Angeles ¹	310	230	202	123	68	18	0	0	6	31	132	229	1,349
Sacramento ¹	577	406	338	192	102	9	0	0	12	78	324	549	2,587
San Francisco ¹	443	336	319	279	239	180	162	174	102	118	231	388	3,001
Colo.--- Denver	1,132	938	857	558	288	66	6	9	117	428	819	1,035	6,283
Conn.--- Hartford	1,209	1,061	899	495	177	24	0	6	99	372	711	1,119	6,172
Del.--- Wilmington	980	874	735	337	112	6	0	0	51	270	588	927	4,930
D.C.--- Washington	871	762	626	288	74	0	0	0	33	217	519	834	4,224
Fla.--- Jacksonville	332	246	174	21	0	0	0	0	0	12	144	310	1,230
Miami ¹	74	56	19	0	0	0	0	0	0	0	0	65	214
Ga.--- Atlanta	636	518	428	147	25	0	0	0	18	124	417	648	2,961
Hawaii--- Honolulu	0	0	0	0	0	0	0	0	0	0	0	0	0
Idaho--- Boise	1,113	854	722	438	245	81	0	0	132	415	792	1,017	5,800
Ill.--- Chicago	1,209	1,044	899	480	211	48	0	0	81	326	753	1,113	6,155
Ind.--- Peoria	1,218	1,025	849	426	183	33	0	6	87	326	759	1,113	6,025
Iowa--- Indianapolis	1,113	949	809	432	177	39	0	0	90	316	723	1,051	5,600
Kans.--- Des Moines	1,370	1,137	915	438	180	30	0	6	96	363	828	1,225	6,588
Kans.--- Wichita	1,028	804	645	270	87	6	0	0	33	229	618	905	4,620
Ky.--- Louisville	930	818	682	315	105	9	0	0	54	248	609	890	4,600
La.--- New Orleans ¹	338	232	171	18	0	0	0	0	0	0	147	276	1,182
Maine--- Portland	1,339	1,182	1,042	675	372	111	12	53	195	508	807	1,215	7,511
Md.--- Baltimore ¹	880	762	629	288	65	0	0	0	27	189	486	806	4,111
Mass.--- Boston	1,088	972	846	513	208	36	36	9	60	316	603	983	5,634
Mich.--- Detroit	1,181	1,058	936	522	220	42	0	0	87	360	738	1,088	6,232
Minn.--- Sault Ste. Marie	1,525	1,380	1,277	810	477	201	96	105	279	580	951	1,367	9,048
Minn.--- Duluth	1,745	1,518	1,355	840	490	198	71	109	330	632	1,131	1,581	10,000
Minn.--- Minneapolis-St. Paul	1,631	1,380	1,166	621	288	81	22	31	189	505	1,014	1,454	8,382
Miss.--- Jackson	546	414	310	87	0	0	0	0	0	65	315	502	2,230
Mo.--- Kansas City	1,032	818	682	294	109	0	0	0	39	220	612	905	4,711
Mo.--- St. Louis	1,026	848	704	312	121	15	0	0	60	261	627	936	4,900
Mont.--- Great Falls	1,349	1,154	1,063	642	384	186	28	53	258	543	921	1,160	7,750
Nebr.--- Omaha	1,324	1,078	871	405	164	30	0	6	90	326	783	1,141	6,218
Nev.--- Reno	1,073	823	720	510	357	189	43	87	204	490	810	1,026	6,332
N.H.--- Concord	1,358	1,184	1,032	636	298	75	6	50	177	505	822	1,240	7,383
N.J.--- Atlantic City	986	848	741	420	133	15	0	0	39	251	649	880	4,812
N. Mex.--- Albuquerque	930	703	592	288	81	0	0	0	12	229	642	868	4,348
N.Y.--- Albany	1,311	1,156	992	564	239	45	0	19	188	440	777	1,194	6,875
N.Y.--- Buffalo	1,256	1,145	1,039	645	329	78	19	37	141	440	777	1,156	7,062
N.Y.--- New York ¹	986	885	760	408	118	9	0	0	30	233	540	893	4,802
N.C.--- Charlotte	691	582	481	156	22	0	0	0	6	124	438	691	3,191
N.C.--- Raleigh	725	616	487	180	34	0	0	0	21	164	450	716	3,303
N. Dak.--- Bismarck	1,708	1,442	1,203	645	329	117	34	28	222	577	1,083	1,463	8,351
Ohio--- Cincinnati ¹	970	837	701	336	118	9	0	0	54	248	612	921	4,806
Ohio--- Cleveland	1,159	1,047	918	552	260	66	9	25	105	384	738	1,088	6,351
Ohio--- Columbus	1,088	949	809	426	171	27	0	6	84	347	714	1,039	5,660
Oklahoma--- Oklahoma City	868	664	527	189	34	0	0	0	15	164	498	766	3,725
Oreg.--- Portland ¹	789	594	536	351	198	78	12	16	75	267	534	679	4,109
Pa.--- Philadelphia	1,014	890	744	390	115	12	0	0	60	291	621	964	5,101
Pa.--- Pittsburgh	1,119	1,002	874	480	195	39	0	9	105	375	726	1,063	5,987
R.I.--- Providence	1,110	988	868	534	236	51	0	16	96	372	660	1,023	5,954
S. C.--- Columbia	570	470	357	81	0	0	0	0	0	84	345	577	2,484
S. Dak.--- Sioux Falls	1,544	1,285	1,082	573	270	78	19	25	168	462	972	1,361	7,839
Tenn.--- Memphis	729	585	456	147	22	0	0	0	18	130	447	698	3,232
Tenn.--- Nashville	778	644	512	189	40	0	0	0	30	158	495	732	3,578
Tex.--- Dallas	601	440	319	90	6	0	0	0	62	321	524	2,363	
Tex.--- El Paso	685	445	319	105	0	0	0	0	84	414	648	2,700	
Tex.--- Houston ¹	363	258	174	30	0	0	0	0	0	165	288	1,278	
Utah--- Salt Lake City	1,172	910	768	450	233	84	0	0	81	419	849	1,082	6,052
Vt.--- Burlington	1,513	1,333	1,187	714	353	90	28	65	207	539	891	1,349	8,260
Va.--- Norfolk	738	655	533	216	37	0	0	0	9	136	408	698	3,421
Wash.--- Richmond	815	703	546	219	53	0	0	0	36	214	495	784	3,865
Wash.--- Seattle ¹	738	599	577	396	242	117	50	47	129	329	543	657	4,424
W. Va.--- Spokane	1,231	980	834	531	288	135	9	25	168	493	879	1,082	6,655
Wis.--- Charleston	880	770	648	300	96	9	0	0	63	264	591	865	4,476
Wis.--- Milwaukee	1,376	1,193	1,054	642	372	135	43	47	174	471	876	1,252	7,635
Wyo.--- Cheyenne	1,228	1,056	1,011	672	381	102	19	31	210	543	924	1,101	7,278
P.R.--- San Juan ¹	0	0	0	0	0	0	0	0	0	0	0	0	0

¹ City office data.

Source: Dept. of Commerce, Weather Bureau; unpublished data.

Section 7

Public Lands, Parks, and Recreation

Statistics in this section relate to the Federal public domain and other Federally owned and leased real property, national parks and forests, State and municipal parks, foreign and domestic travel, and other forms of recreation.

Public lands statistics are published primarily by the Department of the Interior, Bureau of Land Management, in *Public Land Statistics* (formerly *Statistical Appendix to the Annual Report of the Director*). Data on Federally owned land and real property are collected by the General Services Administration and presented in its annual *Inventory Report on Real Property Owned by the United States Throughout the World*. The Economic Research Service of the Department of Agriculture also compiles and issues statistics on land use and land ownership.

The National Park Service of the Department of the Interior publishes information on national parks in its annual report, *Areas Administered by the National Park Service*, and its monthly report, *Public Use, National Parks and Related Areas*; and on State park systems in its annual report, *State Park Statistics*. Data for municipal parks and playgrounds, as well as for other outdoor recreational activities, have been compiled by a private agency, Resources for the Future, Inc., Washington, D.C., and published in *Statistics on Outdoor Recreation* (1958). The Forest Service collects, and issues in its *Annual Report of the Chief*, figures for recreational uses of the national forests. The Fish and Wildlife Service compiles data on hunting and fishing. Figures on expenditures for recreation and on domestic and foreign travel are compiled by the Department of Commerce and appear periodically in the monthly *Survey of Current Business* and in other reports.

Public-domain and acquired lands.—The U.S. Government acquired sovereignty over its present land area through a series of international agreements and treaties, but did not gain title to all of this land by such agreements. At the time of acquisition of U.S. sovereignty over the areas involved (now 2,271 million acres) title to about 463 million acres rested in individual States and their political subdivisions or in private owners, and was not relinquished to the U.S. Government. Title to the remaining land area passed to the U.S. Government. This area, with the exception of lands in the District of Columbia, is known as the original public domain.

Public-domain lands or public lands are those Federally owned lands to which the public land laws apply. In general, these lands include that portion of the original public domain not disposed of under the public land laws, and certain other lands declared by the Congress specifically to be public lands.

In addition to the original public domain, the U.S. Government has from time to time acquired, by purchase, condemnation, and gift, tracts of land needed for public purposes. Such lands are referred to as acquired lands, to distinguish them from public-domain lands.

Indian lands.—Indian lands refer to public-domain lands ceded to the Government by Indian tribes on condition that proceeds from their sale or other disposition would be earmarked in the Treasury as in trust for the Indians.

Entries, selections, patents, and certifications.—The data on entries, selections, patents, and certifications refer to transactions which involve the disposal, under the public land laws (including the homestead laws), of Federal public lands to non-Federal owners. In general, original entries and selections are applications to secure title to

public lands which have been accepted as properly filed. Some types of applications, however, are not reported until the final certificate is issued. Applications become final entries (perfected entries) upon issuance of a final certificate to the applicant after he has complied fully with the requirements of the laws relating to his application. A final certificate passes equitable title to the land to the applicant. Patents are instruments which pass legal title to the land to the applicant. Certifications are issued in lieu of patents in connection with certain State selections.

Alaska and Hawaii.—Statements specifying inclusion or exclusion of figures for Alaska and Hawaii appear in the headnotes to each table unless the inclusion or exclusion is self-evident. "Conterminous area" refers to the United States excluding Alaska, Hawaii, and outlying areas.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1957*. See preface.

No. 257. AREA AND ACQUISITION OF THE PUBLIC DOMAIN: 1781 TO 1962

[In thousands of acres. Areas are as computed in 1912; hence do not agree with figures in square miles shown in table 228, which includes later adjustments and reflects subsequent remeasurement. See also *Historical Statistics, Colonial Times to 1957*, series J 3-9]

YEAR	Estimated area ¹	YEAR	Estimated area ¹
1802	200,000	1955	411,000
1850	1,200,000	1958	410,000
1880	900,000	1959	771,000
1912	600,000	1960	772,000
1946	413,000	1961	768,000
1950	412,000	1962	771,000

YEAR AND ACQUISITION	Total	Land	Inland water
Aggregate	1,837,763	1,807,682	30,081
1781-1802 (State Cessions)	236,826	233,416	3,410
1803, Louisiana Purchase ²	529,912	523,446	6,465
1819, Cession from Spain ³	46,145	43,343	2,802
Red River Basin ⁴	29,602	29,067	535
1846, Oregon Compromise	183,336	180,644	2,742
1848, Mexican Cession ²	338,681	334,479	4,202
1850, Purchase from Texas	78,927	78,843	84
1853, Gadsden Purchase	18,989	18,062	27
1867, Alaska Purchase	375,298	365,482	9,814

¹ Estimated from imperfect data available for indicated years. Beginning 1959, includes Alaska.

² Data for Louisiana Purchase exclude areas eliminated by Treaty of 1819 with Spain. Such areas are included in figures for Mexican Cession.

³ Includes 33,920 acres subsequently recognized as part of State of Texas which is not a public-domain State.

⁴ Represents drainage basin of Red River of the North, south of 49th parallel. Authorities differ as to method and exact date of its acquisition. Some hold it as part of Louisiana Purchase; others maintain it was acquired from Great Britain.

Source: Dept. of the Interior. Estimated area, Bureau of Land Management; all other data, Office of the Secretary, *Areas of Acquisitions to the Territory of the U.S., 1922*.

Land and Federal Buildings

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No. 258. TOTAL LAND AND FEDERALLY OWNED LAND AND BUILDINGS, BY ACQUISITION AND COST, 1955 TO 1963, AND BY STATES, 1963

[Land in thousands of acres; cost in millions of dollars. As of June 30. Beginning 1959, includes Alaska, except as noted, and beginning 1960, includes Hawaii]

STATE	LAND				FEDERALLY OWNED BUILDINGS		
	Total	Not owned by Federal Government	Owned by Federal Government		Cost ²	Number	Cost
			Total ¹	Acres			
				Percent			
1955-----	1,903,825	1,405,929	407,806	21.4	357,210	50,686	2,369
1958-----	1,903,825	1,495,634	408,191	21.4	358,342	49,849	2,552
1959 ³ -----	2,289,306	1,500,666	708,640	33.8	718,642	49,998	2,732
1960-----	2,273,407	1,501,894	771,512	33.9	720,004	51,508	2,956
1961-----	2,271,343	1,503,577	767,766	33.8	710,877	56,889	3,146
1962-----	2,271,343	1,500,547	770,797	33.9	719,373	51,424	3,462
1963-----							
Total.....	2,271,343	1,501,440	769,903	33.9	718,115	51,788	3,765
Ala.....	32,678	31,502	1,086	3.3	61	1,025	54
Alaska.....	305,482	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)
Ariz.....	72,688	40,249	32,439	44.6	32,142	297	12
Ark.....	33,559	30,545	3,054	9.1	1,073	1,981	63
Calif.....	100,207	55,211	44,996	44.9	42,824	2,172	362
Colo.....	66,486	42,508	23,978	36.1	23,019	959	39
Conn.....	3,135	3,128	7	0.2	-	7	20
Del.....	1,266	1,233	33	2.6	-	33	6
D.C.....	39	-	11	28.9	-	11	135
Fla.....	34,721	31,402	3,319	9.6	322	2,998	79
Ga.....	37,295	35,258	2,037	5.5	-	2,037	106
Hawaii.....	4,106	3,872	233	5.7	-	233	23
Idaho.....	52,933	19,169	33,765	63.8	33,020	744	24
Ill.....	35,795	35,356	439	1.2	(³)	439	74
Ind.....	23,158	22,805	353	1.5	(³)	353	32
Iowa.....	35,860	35,705	156	0.4	(³)	155	23
Kans.....	52,511	52,029	482	0.9	27	455	81
Ky.....	26,512	24,434	1,078	4.2	-	1,078	146
La.....	28,868	27,820	1,048	3.6	26	1,022	44
Maine.....	19,848	19,719	128	0.6	-	128	10
Md.....	6,319	6,136	184	2.9	-	184	44
Mass.....	5,035	4,970	65	1.3	-	65	69
Mich.....	36,492	38,240	3,252	8.9	290	2,962	25
Minn.....	51,206	47,803	3,313	6.5	1,394	1,919	17
Miss.....	30,223	28,708	1,514	5.0	7	1,508	46
Mo.....	44,248	42,553	1,695	3.8	3	1,602	66
Mont.....	93,271	65,612	27,659	29.7	25,231	2,428	27
Nebr.....	49,032	48,322	710	1.4	250	459	29
Nev.....	70,264	10,166	60,098	85.5	50,915	183	4
N.H.....	5,769	5,065	704	12.2	-	704	24
N.J.....	4,813	4,710	103	2.1	-	103	50
N. Mex.....	77,766	50,903	26,864	34.5	25,529	1,335	24
N.Y.....	30,681	30,457	224	0.7	-	224	135
N.C.....	31,403	29,503	1,900	6.1	-	1,900	65
N. Dak.....	44,452	42,399	2,054	4.6	216	1,337	93
Ohio.....	26,222	26,010	212	0.8	(³)	212	103
Oklahoma.....	44,088	42,811	1,277	2.9	175	1,102	225
Oreg.....	61,599	29,509	32,089	52.1	30,566	1,524	208
Pa.....	28,804	28,241	564	2.0	-	564	138
R.I.....	677	669	8	1.1	-	8	8
S.C.....	19,374	18,245	1,129	5.8	-	1,129	68
S. Dak.....	48,882	45,702	3,180	6.5	1,629	1,551	115
Tenn.....	26,728	25,174	1,554	5.8	-	1,554	208
Tex.....	168,218	165,428	2,790	1.7	-	2,790	209
Utah.....	52,697	17,820	34,877	66.2	34,440	437	14
Vt.....	5,937	5,682	255	4.3	-	255	10
Va.....	25,496	23,363	2,133	8.4	-	2,133	131
Wash.....	42,694	30,164	12,529	29.3	11,061	1,469	156
W. Va.....	15,411	14,455	955	6.2	-	955	44
Wis.....	35,011	33,230	1,781	5.1	19	1,762	18
Wyo.....	62,343	32,253	30,090	48.3	29,395	696	54

¹ Excludes trust properties.

² Excludes valuation for public-domain lands for which there are no costs.

³ Excludes Department of Defense military functions in Alaska.

⁴ Detail not shown because of statistical discrepancies in reporting.

⁵ Less than 500 acres.

Public Lands, Parks, and Recreation

No. 259. OWNERSHIP OF LAND, BY CLASS: 1954 AND 1959

[Land in millions of acres. Includes Alaska and Hawaii. Compiled from Federal and State reports and records.
See also table 871. See also *Historical Statistics, Colonial Times to 1957*, series J 65 and J 75]

CLASSES	1954		1959	
	Land	Percent	Land	Percent
	2,273	100.0	2,271	100.0
Total				
Private land ¹	1,335	58.7	1,332	58.7
Indian land ²	53	2.3	53	2.3
Public land	885	39.0	886	39.0
Federal land ³	766	33.7	765	33.7
State land ⁴	101	4.5	103	4.5
County and municipal land	18	0.8	18	0.8

¹ Land owned by individuals, partnerships, and corporations.

² Chiefly trust and tribal land, exclusive of individual holdings and Federal areas used by Indians.

³ Gross acreage of Federal holdings including highway and road rights-of-way in Federal areas.

⁴ Includes the major part of highway and road rights-of-way through predominantly private land areas.

Source: Dept. of Agriculture, Economic Research Service; *Major Uses of Land and Water in the United States*, July 1962. (Agricultural Economic Report No. 13.)

No. 260. FEDERAL REAL PROPERTY—LAND, BUILDINGS, AND COST, BY AGENCY: 1960 AND 1963

[As of June 30. Covers Federally owned real property throughout world]

AGENCY	LAND (1,000 acres)		NUMBER OF BUILDINGS		FLOOR AREA OF BUILDINGS (1,000 sq. ft.)		TOTAL COST— LAND, BUILDINGS, STRUCTURES, AND FACILITIES (\$1,000,000)	
	1960	1963	1960	1963	1960	1963	1960	1963
	Total	772,048	770,434	n.a.	n.a.	2,445,162	n.a.	52,618
Outside U.S.	536	531	n.a.	n.a.	1,30,240	n.a.	6,363	6,963
Inside U.S. ²	771,512	769,903	405,443	429,103	2,414,922	2,468,705	46,255	54,514
Agriculture	186,020	186,601	23,147	22,219	20,207	21,926	1,059	1,443
Atomic Energy Commission	2,088	2,107	7,026	7,968	73,115	77,768	3,141	3,421
Commerce	8	9	902	897	10,149	9,886	175	179
Defense	29,714	28,689	320,097	341,620	1,928,882	1,926,464	31,298	30,898
Army	8,529	10,405	141,639	145,764	790,054	773,434	8,861	9,645
Air Force	12,464	8,726	93,353	105,428	564,351	596,840	9,562	12,319
Navy	3,548	3,611	79,909	84,813	563,129	545,100	8,073	8,472
Corps of Engineers, civil functions	5,173	5,948	5,196	5,615	11,298	11,091	4,802	6,462
Federal Aviation Agency	113	111	1,742	2,151	4,244	4,723	187	206
General Services Administration	18	13	2,175	2,581	120,571	153,009	1,295	1,631
Housing and Home Finance Agency	1	(3) ³	297	238	1,105	962	17	10
Interior	552,613	551,375	30,407	31,323	40,903	42,767	4,557	5,322
National Aeronautics and Space Administration	5	67	300	1,115	5,502	13,265	323	609
Post Office	2	2	3,063	2,926	46,663	47,247	489	512
State Dept.	76	74	108	104	162	173	62	69
Tenn. Valley Authority	696	698	717	707	2,794	2,970	1,753	1,973
Treasury	85	68	3,960	3,880	13,751	13,868	209	248
Veterans Administration	29	27	7,565	7,068	114,719	117,204	1,195	1,353
Other	45	62	3,928	4,306	32,204	36,492	494	640

n.a. Not available.

¹ Excludes floor area pertaining to Dept. of Defense military functions outside United States.

² Includes Alaska and Hawaii.

³ Less than 500 acres.

Source: General Services Administration; annual report, *Inventory Report on Real Property Owned by the United States Throughout the World*.

Federal Property

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No. 261. FEDERALLY OWNED LAND INSIDE U.S., BY PREDOMINANT USAGE, BY AGENCY: 1963

[In thousands of acres. As of June 30. Includes Alaska and Hawaii]

AGENCY	Forest and wildlife	Grazing	Military, except air-fields	Parks and historic sites	Reclamation and irrigation	Flood control and navigation	Power development and distribution	Air-fields	Other
Total	515,102	164,392	16,378	22,405	8,020	6,225	1,917	1,923	33,542
Agriculture	106,866	19,020	—	(¹)	—	—	—	—	714
Atomic Energy Commission	—	—	—	—	—	—	—	—	2,107
Defense	—	—	16,377	—	—	5,399	545	1,834	4,534
Army	—	—	6,447	—	—	—	—	5	3,953
Air Force	—	—	7,256	—	—	—	—	1,254	216
Navy	—	—	2,675	—	—	—	—	574	361
Corps of Engineers, civil functions	—	—	—	—	—	5,399	545	—	4
Interior	348,235	145,365	—	22,405	8,020	24	1,344	—	25,983
Tennessee Valley Authority	—	—	—	—	—	660	28	—	10
Other	(¹)	6	(¹)	(¹)	—	142	—	89	194

¹ Less than 500 acres.

Source: General Services Administration; annual report, *Inventory Report on Real Property Owned by the United States Throughout the World*.

No. 262. FEDERAL REAL PROPERTY—LAND AND BUILDINGS OWNED AND LEASED AND ANNUAL RENTAL ON LEASED PROPERTY, BY LOCATION AND FUNCTION: 1963

[As of June 30]

LOCATION AND FUNCTION	LAND (1,000 acres)			FLOOR AREA OF BUILDINGS (1,000 Sq. ft.)			LEASED PROPERTY	
	Total	Federally owned	Leased	Total	Federally owned	Leased	Number of leases	Annual rental (\$1,000)
Total, worldwide	772,163	770,434	1,729	n.a.	n.a.	n.a.	n.a.	254,223
Civil agencies	741,716	741,047	69	694,883	572,791	122,092	44,649	218,480
Defense:								
Military functions	24,477	22,830	1,639	n.a.	n.a.	n.a.	n.a.	35,300
Civil functions	5,070	5,948	22	11,349	11,143	206	289	443
In United States ¹	771,516	769,903	1,613	2,585,434	2,468,705	116,729	50,210	214,285
Civil agencies	741,277	741,214	63	650,961	542,240	108,721	39,816	196,221
Defense:								
Military functions	24,269	22,741	1,528	1,923,176	1,915,374	7,802	10,105	17,621
Civil functions	5,070	5,948	22	11,297	11,091	206	289	443
In outlying areas of United States	639	527	112	n.a.	n.a.	n.a.	n.a.	992
Civil agencies	432	429	3	15,599	15,120	470	269	874
Defense:								
Military functions	207	98	109	n.a.	n.a.	n.a.	n.a.	118
Civil functions	(²)	(²)	—	52	52	—	—	—
In foreign countries	8	4	4	n.a.	n.a.	n.a.	n.a.	38,946
Civil agencies	7	4	3	28,323	15,422	12,901	4,564	21,385
Defense: Military functions	1	—	1	n.a.	n.a.	n.a.	n.a.	17,361

n.a. Not available.

¹ Includes Alaska and Hawaii.

² Less than 500 acres.

Source: General Services Administration; annual report, *Inventory Report on Real Property Leased to the United States Throughout the World*.

Public Lands, Parks, and Recreation

No. 263. PUBLIC LANDS—DISPOSAL TRANSACTIONS AND CASH RECEIPTS: 1901 TO 1963

[For years ending June 30. Includes Alaska. Period figures are totals, not averages. See also *Historical Statistics, Colonial Times to 1957*, series J 11-18]

PERIOD OR YEAR	ALL ENTRIES, SELECTIONS, PATENTS, ETC. ¹			HOMESTEAD ENTRIES, EXCEPT ON CEDED INDIAN LANDS			CASH RECEIPTS		
	All original entries and selections ²	All final entries	Patents and certifications	Original entries		Final entries ³	Total ⁴	Mineral leases ⁵	Sales of timber
				Number	Acreage				
	1,000 acres	1,000 acres	1,000 acres			1,000 acres	\$1,000	\$1,000	\$1,000
1901-1910.....	196,841			831,841	130,737	38,819	94,095		
1911-1920.....	156,402	9,778	6 13,327	554,026	123,826	74,316	67,023		768
1921-1930.....	61,231	45,513	66,358	172,503	53,460	40,391	104,454	76,372	7,537
1931-1940.....	19,269	14,243	18,350	44,554	15,925	13,017	57,984	44,603	4,289
1941-1945.....	404	1,057	3,850	1,233	159	764	58,428	40,761	7,439
1946-1950.....	496	436	1,726	2,456	306	150	141,464	105,446	17,498
1951-1955.....	1,101	1,029	2,081	2,259	289	220	497,482	375,223	69,511
1956-1960.....	2,075	1,353	3,547	3,899	501	233	902,014	675,178	139,121
1955.....	251	250	539	482	60	37	239,549	202,366	24,951
1960.....	1,295	270	592	1,077	143	45	371,068	313,548	36,359
1961.....	2,211	451	600	615	77	39	150,246	96,508	32,126
1962.....	2,453	622	839	674	83	23	173,517	116,770	34,735
1963.....	380	254	754	333	46	25	530,692	128,674	33,628

¹ Includes homesteads. ² Includes some classes of final entries and patents prior to 1911.

³ Excludes commuted homesteads.

⁴ Comprises Bureau of Land Management receipts from such sources as following: Sales of public and ceded Indian lands; fees and commissions; mineral rentals, royalties, and bonuses; sales of timber; grazing fees and rentals; and land rentals. For periods prior to 1901, receipts were \$340,821,000.

⁵ Act of Feb. 25, 1920. Includes Outer Continental Shelf leases beginning 1955.

⁶ 1920 only.

Source: Dept. of the Interior, Bureau of Land Management; *Public Land Statistics*.

No. 264. PUBLIC LANDS—LEASES, PERMITS, AND LICENSES, BY CLASS: 1950 TO 1963

[Acres in thousands. As of June 30. Includes Alaska. Excludes leases on acquired, submerged, and military lands. For oil and gas leases for earlier years, see also *Historical Statistics, Colonial Times to 1957*, series J 32-33]

CLASS	1950		1955		1960		1963	
	Number	Acres	Number	Acres	Number	Acres	Number	Acres
Mineral class.....	28,208	24,006	96,898	72,902	142,114	118,157	115,208	77,125
Leases.....	27,747	23,076	96,337	71,983	140,057	114,136	114,631	76,186
Oil and gas.....	27,300	22,872	1 95,907	1 71,696	1 139,534	1 113,667	113,986	75,495
Coal.....	383	121	307	136	294	199	335	300
Other.....	64	83	123	152	229	270	310	391
Permits.....	418	929	525	918	2,035	4,020	561	938
Sodium.....	72	131	119	223	986	1,999	62	106
Potash.....	270	515	283	630	825	1,649	232	416
Other.....	76	283	123	164	224	373	267	415
Licenses.....	43	2	36	2	22	1	16	1
Other classes ¹	27,477	15,301	53,438	20,920	n.a.	19,529	n.a.	21,232
Leases.....	27,166	14,897	52,864	19,772	19,010	18,615	11,243	18,976
Grazing.....	11,283	14,715	11,199	19,404	9,911	18,532	8,352	18,832
Recreation.....	18	20	12	2	61	7	187	97
Small tract.....	15,802	73	41,022	187	8,082	33	1,618	6
Other.....	68	89	61	179	56	43	86	41
Permits ²	311	404	1,074	1,147	n.a.	914	n.a.	2,256

n.a. Not available.

¹ Includes naval petroleum reserve: 17 leases, 9,226 acres.

² Excludes grazing licenses and permits within grazing districts. ³ Calendar year 1962 data.

Source: Dept. of the Interior, Bureau of Land Management; *Public Land Statistics*.

No. 265. PUBLIC LANDS—HOMESTEAD ENTRIES, 1942 TO 1963, AND VACANT LANDS, 1940 TO 1963, BY STATES

[Homestead entries for years ending June 30; vacant lands as of June 30. See text, pp. 193 and 194. Vacant public lands are those which are unappropriated and unreserved. The former represent lands not covered by an entry; the latter, lands not reserved for some public purpose, i.e., available for entry or selection under appropriate laws. Data cover vacant public lands outside Alaska withdrawn for classification in furtherance of Taylor Grazing Act and for conservation and development of natural resources. See *Historical Statistics, Colonial Times to 1957*, series J 10, for vacant land excluding Alaska and J 17-18 for homestead entries]

ITEM AND STATE	HOMESTEAD ENTRIES (acres)				VACANT LANDS 1 (1,000 acres)			
	1942-1951, total	1952-1961, total	1962	1963	1940	1950	1960	1963
	2,462,387	2,818,830	2,82,512	2,46,139	502,826	440,408	437,879	436,991
Total	2,462,387	2,818,830	2,82,512	2,46,139	502,826	440,408	437,879	436,991
Alabama					16	27	3	2
Alaska	234,908	627,139	79,294	45,011	323,000	270,000	270,200	270,651
Arizona	15,869	7,600	478		13,869	12,545	12,442	12,402
Arkansas		200			130	134	3	2
California	27,101	3,692			16,969	16,306	15,673	15,552
Colorado	19,200	11,065			7,937	8,070	8,090	8,052
Florida		360	40		14	23	1	1
Idaho	30,408	92,099	2,140	289	11,879	10,858	11,652	11,644
Illinois					(*)	(*)	(*)	(*)
Indiana					3	3	1	1
Kansas		37			6	7	11	8
Louisiana					16	16	5	5
Michigan					238	93	58	21
Minnesota					13	17	4	2
Mississippi					(*)	(*)	(*)	(*)
Missouri					6,460	6,773	6,385	6,355
Montana	7,070	983			29	25	6	6
Nebraska					51,144	47,158	46,027	45,966
Nevada	4,433	28,449		719	15,695	14,503	13,129	13,114
New Mexico	12,512	3,196	440	120	108	96	79	79
North Dakota	(*)				23	25	23	22
Oklahoma					12,774	13,298	13,153	13,185
Oregon	4,329	1,298			279	290	272	269
South Dakota	(*)				25,734	23,033	24,097	22,982
Utah	58,348	37,194	120		577	487	365	252
Washington	3,087	660			6	6	2	1
Wisconsin					15,907	16,615	16,198	16,430
Wyoming	32,360	2,130						
Bureau of Land Management	4,12,702	2,128						
Final entries	5,976,465	5,374,679	5,23,138	24,659				

¹ Includes acreage of public lands within grazing districts, as follows (in thousands): 1940, 131,920; 1950, 134,875; 1960, 141,645; 1963, 139,878. ² Original entries. ³ Less than 500 acres.

⁴ For States no longer having local offices, entries, if any, included with Bureau of Land Management.

⁵ Excludes commuted homesteads and ceded Indian lands.

No. 266. PUBLIC AND INDIAN LAND—ENTRIES UNDER ALL ACTS, BY STATES: 1936 TO 1963

[In acres. For years ending June 30. See text, pp. 193 and 194. See also *Historical Statistics, Colonial Times to 1957*, series J 13-15]

CLASS AND STATE	ORIGINAL ENTRIES							Final entries, 1963	Patented, 1963
	1936-1940, total	1941-1945, total	1946-1950, total	1951-1955, total	1956-1960, total	1962	1963		
	1,036,849	404,409	496,287	1,100,665	2,075,680	2,453,211	880,145	253,557	633,340
Total	1,036,849	404,409	496,287	1,100,665	2,075,680	2,453,211	880,145	253,557	633,340
Public land	987,684	400,239	480,487	1,092,480	2,075,680	2,453,211	880,145	253,557	629,401
Indian land	49,165	4,169	15,800	8,184					3,939
All homesteads	708,410	162,736	321,638	297,090	501,092	82,512	46,139	57,722	63,102
Stock-raising	472,920	25,488	3,192	2,515					
Other entries	325,439	241,073	174,649	803,574	1,574,588	2,370,699	834,006	195,835	570,238
Alaska	59,034	66,695	171,810	178,285	1,358,048	2,278,030	688,803	48,106	200,276
Arizona	80,874	25,157	43,832	51,814	187,648	14,409	23,267	5,696	7,385
California	209,426	89,631	59,572	112,097	40,638	7,953	5,477	20,466	35,464
Colorado	107,578	10,209	45,484	93,435	22,379	5,569	114	14,366	13,175
Idaho	57,488	21,573	32,543	219,567	178,416	36,089	15,522	25,072	32,590
Montana	84,619	20,929	1,802	1,524	4,408	178	96	21,566	25,063
Nevada	2,821	7,851	6,900	307,922	157,329	13,435	63,532	38,426	60,576
New Mexico	176,942	33,435	4,733	12,350	17,167	1,950	6,162	19,083	53,523
Oregon	53,878	5,136	2,068	22,853	12,728	796	163	6,625	16,552
Utah	27,091	99,689	71,966	76,493	23,972	32,483	55,427	19,202	21,342
Washington	3,333	760	5,104	76	40,342	51,331	13,690	1,227	1,804
Wyoming	138,074	9,830	47,175	18,753	31,990	10,144	6,900	25,967	30,653
Other States	35,681	13,514	3,298	5,412	615	844	992	4,755	44,937

Source of tables 265 and 266: Dept. of the Interior, Bureau of Land Management; *Public Land Statistics*.

Public Lands, Parks, and Recreation

No. 267. PUBLIC AND INDIAN LAND—ENTRIES AND PATENTS: 1961 TO 1963

[In acres. For years ending June 30. Includes Alaska. See text, pp. 193 and 194. See *Historical Statistics, Colonial Times to 1957*, series J 13-15, for grand totals for earlier years]

CLASS	1961			1962			1963		
	Original entries	Final entries	Patented entries	Original entries	Final entries	Patented entries	Original entries	Final entries	Patented entries
Total.....	2,210,942	451,055	599,951	2,453,211	621,786	838,638	880,145	253,557	754,016
Homesteads.....	77,345	57,461	58,929	82,512	51,715	55,608	46,139	57,722	63,102
Enlarged.....	160	3,668	4,492	80	1,481	1,161	-----	431	2,138
Reclamation.....	310	28,276	27,840	1,980	13,080	13,275	289	9,259	10,554
Sec. 2289, Revised Statutes, ¹ et al.....	76,875	25,517	26,597	80,452	37,154	41,172	45,850	48,032	50,410
Deserts.....	93,708	41,071	39,720	48,615	46,641	48,751	67,853	54,344	55,051
Public auction.....	65,523	63,842	-----	-----	91,684	91,910	-----	74,257	71,582
State selection.....	1,844,268	216,299	2305,484	1,636,884	77,570	396,295	687,460	-----	2,362,707
Mineral.....	30,805	17,427	16,193	34,631	18,699	18,421	11,310	13,116	6,669
Exchange.....	36,988	42,335	-----	-----	153,003	-----	-----	-----	98,483
Miscellaneous.....	128,878	53,274	73,448	650,569	385,477	74,650	67,383	84,118	96,422

¹ Homestead entry, not exceeding 160 acres, initiated under provisions of Section 2289 R.S., which provide for homesteading of agricultural lands.

² Includes certifications: 1961, 118,166 acres; 1962, 83,089 acres; 1963, 120,676 acres.

Source: Dept. of the Interior, Bureau of Land Management; *Public Land Statistics*.

No. 268. INDIAN LANDS UNDER JURISDICTION OF BUREAU OF INDIAN AFFAIRS—STATES: 1900 TO 1963

[In thousands of acres. Excludes States with less than 500 acres in years specified]

STATE	1900	1920	1940	1960 ¹	1963 ¹			
					Total	Trust allotted	Tribal	Government owned
Total.....	78,372	71,399	55,406	58,076	² 55,197	² 11,607	38,877	4,713
Alaska.....	n.a.	n.a.	n.a.	4,168	4,163	10	88	4,065
Arizona.....	15,151	18,553	³ 19,225	21,515	19,741	260	19,390	91
California.....	406	517	667	558	552	85	467	(4)
Colorado.....	484	469	667	752	752	5	746	1
Florida.....	23	24	61	79	79	-----	79	-----
Idaho.....	1,365	683	818	835	833	390	401	42
Iowa.....	3	3	3	4	4	-----	4	-----
Kansas.....	28	273	36	29	28	26	2	(4)
Louisiana.....	-----	-----	(4)	(4)	(4)	(4)	-----	-----
Michigan.....	8	153	27	22	21	9	8	4
Minnesota.....	1,567	1,509	653	756	755	55	671	29
Mississippi.....	-----	-----	9	16	16	(4)	16	(4)
Missouri.....	-----	-----	(4)	(4)	(4)	-----	-----	-----
Montana.....	9,501	6,054	6,455	5,457	5,373	3,617	1,628	128
Nebraska.....	75	360	76	68	67	² 53	14	(4)
Nevada.....	954	741	1,127	1,152	1,149	70	1,062	8
New Mexico.....	1,667	4,697	7,153	6,542	6,693	648	5,918	127
New York.....	88	88	-----	-----	-----	-----	-----	-----
North Carolina.....	98	63	57	56	56	56	-----	(4)
North Dakota.....	3,702	2,105	1,036	879	868	730	131	7
Oklahoma.....	26,397	19,552	2,844	1,855	² 1,676	² 1,584	59	33
Oregon.....	1,300	1,718	1,737	1,238	692	195	496	1
South Carolina.....	-----	-----	-----	3	-----	-----	-----	-----
South Dakota.....	8,992	6,686	5,805	5,064	4,948	2,873	1,938	137
Texas.....	-----	-----	(4)	(4)	(4)	-----	-----	-----
Utah.....	2,039	1,641	1,693	2,125	2,116	68	2,048	(4)
Washington.....	2,334	2,719	2,740	2,591	2,542	708	1,834	(4)
Wisconsin.....	381	590	445	422	184	85	60	39
Wyoming.....	1,810	2,102	2,013	1,890	1,889	127	1,761	-----

n.a. Not available.

¹ Taxable lands generally excluded.

² Includes taxable land as follows: 35,705 acres for Nebraska and 236,816 acres for Oklahoma.

³ Excludes 495,578 acres of land in litigation lost to Atchison, Topeka, and Santa Fe Railroad.

⁴ Less than 500 acres.

Source: Dept. of the Interior, Bureau of Indian Affairs; *Annual Report*, and unpublished data.

National Park Service

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No. 269. VISITS TO AREAS ADMINISTERED BY THE NATIONAL PARK SERVICE, 1921 TO 1963, AND TO INDIVIDUAL NATIONAL PARKS, 1963

[Visits in thousands. Visits, through 1940, for years ending September 30; thereafter, calendar years. Acreage as of December 31, 1963. Includes data for Alaska, Hawaii, Puerto Rico, and Virgin Islands. See also *Historical Statistics, Colonial Times to 1957*, series H 457.]

PERIOD	Visits, annual average	PERIOD	Visits, annual average ¹	YEAR	Visits ¹	YEAR	Visits ¹
1921-1925	1,522	1941-1945	11,408	1954	47,834	1959	68,900
1926-1930	2,927	1946-1950	28,427	1955	50,008	1960 ²	79,279
1931-1935	4,959	1951-1955	44,695	1956	61,602	1961 ²	86,663
1936-1940	15,148	1956-1960 ³	68,652	1957	68,016	1962 ²	97,045
				1958	65,461	1963 ²	102,711

PARK	State or other area	1963		PARK	State or other area	1963	
		Federal acreage (1,000)	Visits ²			Federal acreage (1,000)	Visits ²
Acadia	Maine	32	1,865	Lassen Volcanic	Calif.	106	369
Big Bend	Tex	700	114	Mammoth Cave	Ky.	51	636
Bryce Canyon	Utah	36	289	Mesa Verde	Colo.	51	325
Carlsbad Caverns	N. Mex.	43	587	Mount McKinley	Alaska	1,930	18
Crater Lake	Oreg	160	476	Mt. Rainier	Wash.	242	1,544
Everglades	Fla.	1,303	666	Olympic	Wash.	889	1,576
Glacier	Mont	1,009	810	Petrified Forest	Ariz.	94	786
Grand Canyon	Ariz.	673	1,539	Plat.	Okla.	1	1,423
Grand Teton	Wyo	302	2,159	Rocky Mountain	Colo.	260	1,855
Great Smoky Mountains	N.C.-Tenn.	510	5,250	Sequoia	Calif.	385	632
Haleakala	Hawaii	17	72	Shenandoah	Va.	194	2,238
Hawaii Volcanoes	Hawaii	201	495	Virgin Islands	Virgin Is.	11	86
Hot Springs	Ark.	1	1,870	Wind Cave	S. Dak.	28	931
Isle Royale	Mich.	530	8	Yellowstone	Wyo.-Mont.	2,213	1,872
Kings Canyon	Calif	454	779	Zion	Idaho	788	1,473
					Calif.	134	681

¹ Beginning 1956, includes visits to National Capital parks.

² New series, not comparable with previous years. New series adjusted to old base produces estimate of 72,854,000 in 1960, 78,257,000 in 1961, 87,638,000 in 1962, and 84,087,000 in 1963.

No. 270. NATIONAL PARKS, MONUMENTS, AND ALLIED AREAS—NUMBER, ACREAGE, AND VISITS: 1950, 1960, AND 1963

[Areas and acreage as of June 30, except as noted; visits, calendar year. Includes data for 4 areas in Puerto Rico and Virgin Islands. See also *Historical Statistics, Colonial Times to 1957*, series H 455-470]

TYPE OF AREA	1950			1960			1963		
	Number of areas	Federal acreage (1,000)	Visits (1,000)	Number of areas	Federal acreage (1,000)	Visits ¹	Number of areas ²	Federal acreage ² (1,000)	Visits ¹ (1,000)
National Park System									
Historical parks	5	10	1,301	8	32	6,268	10	32	n.a.
Military parks	11	24	1,861	12	30	5,922	11	29	n.a.
Memorial park	1	58	71	1	69	223	1	69	237
National Capital park ³	1	29	(4)	1	39	6,991	1	35	8,618
Battlefield parks	2	4	93	3	6	548	3	6	758
Other National parks	28	12,222	13,919	29	13,208	26,630	31	13,338	33,438
Monuments	86	9,439	5,310	83	8,981	10,738	77	8,935	n.a.
Battlefields				1	(5)	34	5	3	1,277
Battlefield sites	6	(6)	149	5	(4)	288	3	1	123
Historic sites	13	3	928	12	2	1,263	22	3	n.a.
Memorials	10	2	4,980	14	5	7,271	15	5	n.a.
Cemeteries	10	(6)	63	10	(3)	63	10	(3)	63
Seashores				1	25	407	4	79	873
Parkways	4	64	1,906	3	94	8,983	3	100	12,523
Recreation areas	5	2,026	2,551	4	3,214	3,650	4	3,234	4,797
White House							1	(6)	1,520

n.a. Not available.

¹ New series, not comparable with previous years. New series adjusted to old base produces estimate of 72,854,000 in 1960, and 84,087,000 in 1963. ² As of Jan. 1, 1964.

³ All parks in Washington, D.C. counted as 1 area, consisting of 769 units in 1950, 783 in 1960, and 785 in 1963.

* Visits not recorded until 1951. ⁴ Less than 500 acres. White House, 18.1 acres.

⁵ Visits are for 1 cemetery only; those for the other 9 are included with the parks by which they are administered.

Source of tables 269 and 270: Dept. of the Interior, National Park Service; annual report, *Areas Administered by the National Park Service* and monthly report, *Public Use of the National Parks: A Statistical Report*.

No. 271. NATIONAL FORESTS—VISITS, BY PRIMARY PURPOSE: 1950 TO 1963

[In thousands. Includes Alaska and Puerto Rico, except as noted. See also *Historical Statistics, Colonial Times to 1957*, series H 471-474]

USE AND PURPOSE	1950	1955	1958	1959	1960	1961	1962	1963
Total visits for recreational use.....	27,368	45,713	68,450	81,521	92,595	101,913	112,762	122,582
To areas improved by public funds.	13,061	22,317	31,428	33,542	35,504	36,856	39,882	41,893
To other public areas (unimproved) ¹	14,307	23,396	37,022	47,979	57,091	65,057	72,880	80,689
Visits, by primary purpose:								
General enjoyment of forest areas.	7,969	12,444	18,246	23,538	30,181	34,680	40,452	44,018
Picnicking.....	6,326	10,883	16,126	19,296	19,497	20,076	20,783	21,612
Fishing.....	4,885	8,278	12,246	13,301	14,535	15,986	17,008	18,151
Hunting.....	2,285	4,064	5,589	6,838	7,501	8,535	8,854	9,038
Big-game take ²	358	518	589	659	682	703	665	n.a.
Camping.....	1,534	2,723	4,934	5,681	6,579	6,924	7,092	9,089
Winter sports.....	1,517	2,769	4,022	3,986	4,499	4,405	5,286	5,456
Swimming.....	902	1,368	2,028	2,520	2,801	3,013	3,150	3,537
Hiking and riding.....	635	1,053	1,613	1,786	2,018	2,250	2,539	2,921
Other.....	1,315	2,130	3,646	4,575	4,894	6,035	6,698	7,860

n.a. Not available.

¹ Includes a few public areas improved by non-Federal means.

² Excludes Puerto Rico. Comprises deer, elk, bear, antelope, moose, mountain goat, bighorn, peccary, and wild boar, of which 584,000 were deer in 1962. Beginning 1959, includes data for national grasslands.

Source: Dept. of Agriculture, Forest Service; unpublished data.

No. 272. STATE PARK SYSTEMS—SUMMARY: 1950 TO 1962

[For years ending June 30, in most cases. Beginning 1959, includes Alaska and Hawaii. Number of agencies which reported varies from year to year. Covers parks, historic sites, and parkways reported by State park and State historical agencies. See also *Historical Statistics, Colonial Times to 1957*, series H 475-487]

ITEM	1950	1955	1958	1959	1960	1961	1962
Areas ¹ number.....	1,725	2,034	2,335	2,433	2,604	2,792	2,544
Acreage ¹ 1,000.....	4,657	5,086	5,406	5,681	5,602	5,799	5,766
Expenditures..... \$1,000.....	2 36,399	55,093	2 73,222	2 88,268	87,373	110,101	3 106,151
Salaries and wages..... \$1,000.....	13,622	22,673	31,730	33,548	37,137	41,076	42,094
Supplies and equipment..... \$1,000.....	7,738	11,351	15,260	17,388	19,132	19,005	18,420
Lands..... \$1,000.....	2,651	5,523	7,555	14,834	12,077	13,035	12,295
Improvements..... \$1,000.....	12,304	15,293	18,032	22,432	19,026	36,085	34,004
Funds available for expenditures \$1,000.....	52,283	69,075	135,060	2 139,341	2 131,419	133,673	144,611
Appropriations..... \$1,000.....	28,421	43,382	73,626	65,288	69,204	89,852	98,734
Other..... \$1,000.....	23,862	25,693	61,433	73,767	61,704	43,821	45,877
Revenue from operations..... \$1,000.....	6,646	13,817	18,235	20,773	22,641	23,364	26,466
Attendance..... 1,000.....	114,291	2 183,188	237,329	255,310	259,001	2 273,484	284,795
Day visits..... 1,000.....	108,212	169,123	220,206	237,316	238,432	249,186	260,745
Overnight visits..... 1,000.....	6,079	2 11,057	2 17,123	2 17,994	2 20,560	22,999	4 24,050
Cabins and hotels..... 1,000.....	1,223	1,576	1,753	1,944	1,697	2,230	2,212
Organized camps..... 1,000.....	1,480	1,697	2,075	2,096	2,235	2,206	2,249
Tent and trailer camps..... 1,000.....	3,877	7,650	13,074	13,734	16,217	18,563	18,753
Personnel..... number.....	10,626	13,637	16,873	16,690	17,537	18,126	17,021
Professional..... number.....	401	373	536	607	731	1,386	n.a.
Year-round..... number.....	4,191	5,657	6,691	6,966	7,412	7,984	7,075
Seasonal..... number.....	6,435	7,980	9,982	9,724	10,125	10,142	10,546
Land acquisition..... acres.....	62,042	70,148	2 158,780	2 251,689	68,326	156,485	n.a.
By purchase..... acres.....	18,236	13,750	2 17,573	2 52,801	38,915	64,566	n.a.
By gift..... acres.....	4,586	35,724	10,300	17,740	7,585	11,648	n.a.
By other means..... acres.....	39,220	20,674	122,841	175,321	21,826	80,271	n.a.

n.a. Not available.

¹ Excludes State forests, wildlife refuges, and waysides not administered by State park agencies.

² Includes data for which the detailed breakdown is not available.

³ Excludes expenditures for Colorado, Delaware, Illinois, Minnesota, and Nebraska which are included in breakdown.

⁴ Includes 838,086 primitive campers.

Source: Dept. of the Interior, Bureau of Outdoor Recreation; *State Outdoor Recreation Statistics—1962*.

State Park Systems—Municipal Parks

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No. 273. STATE PARK SYSTEMS—AREAS, ACREAGE, VISITS, AND EXPENDITURES, BY STATES: 1962

[Areas and acreage as of December 31; visits, calendar year; expenditures, for year ending June 30. See also headnote, table 272]

STATE	Areas	Acreage	Visits	Expenditures	STATE	Areas	Acreage	Visits	Expenditures
U.S.	2,544	5,766,236	1,000	\$1,000				1,000	\$1,000
Alabama	26	36,184	3,136	433	Montana	25	10,526	441	116
Alaska	65	3,094	580	178	Nebraska	36	10,095	4,166	n.a.
Arizona	7	5,801	246	134	Nevada	10	11,123	272	170
Arkansas	16	20,120	4,141	1,030	New Hampshire	31	1,336	2,438	1,808
California	171	707,566	27,810	15,292	New Jersey	44	23,802	6,534	2,534
Colorado	22	14,535	1,276	n.a.	New Mexico	18	4,591	1,492	259
Connecticut	75	22,222	4,848	2,034	New York	141	2,589,122	34,201	25,043
Delaware	16	3,495	24	n.a.	North Carolina	23	38,427	1,829	906
Florida	57	121,776	3,911	1,589	North Dakota	65	4,426	570	157
Georgia	62	46,119	3,665	1,396	Ohio	111	94,601	22,780	2,367
Hawaii	21	6,420	501	308	Oklahoma	41	66,857	10,250	2,311
Idaho	25	25,561	829	134	Oregon	187	64,689	12,458	2,029
Illinois	97	47,936	9,574	n.a.	Pennsylvania	160	169,793	23,533	3,920
Indiana	35	54,502	3,082	1,460	Rhode Island	75	8,500	3,021	1,003
Iowa	85	28,710	7,578	2,741	South Carolina	32	48,663	3,255	466
Kansas	10	9,592	1,980	861	South Dakota	11	74,884	5,235	483
Kentucky	35	60,285	8,532	12,199	Tennessee	20	250,000	4,623	1,218
Louisiana	18	12,240	1,573	624	Texas	60	66,616	7,116	538
Maine	35	212,423	788	560	Utah	11	1,320	949	510
Maryland	21	25,604	6,095	2,914	Vermont	29	6,031	865	957
Massachusetts	47	34,343	1,757	1,793	Virginia	22	30,890	1,267	582
Michigan	74	188,754	14,125	4,836	Washington	129	79,959	9,135	3,393
Minnesota	74	100,862	3,287	n.a.	West Virginia	26	44,532	1,022	2,194
Mississippi	16	14,400	2,024	291	Wisconsin	45	22,204	5,323	1,229
Missouri	39	75,381	8,097	936	Wyoming	43	161,664	1,043	65

n.a. Not available.

¹ 89 agencies reporting.

² Excludes data for Colorado, Delaware, Illinois, Minnesota, and Nebraska because State park systems expenditures were not shown separately in consolidated report submitted by States.

Source: Dept. of the Interior, Bureau of Outdoor Recreation; *State Outdoor Recreation Statistics—1962*.

No. 274. MUNICIPAL PARKS—NUMBER, ACREAGE, LEADERSHIP, AND SELECTED FACILITIES: 1930 TO 1960

[For reporting cities of 100,000 inhabitants or more in 1950. Includes Hawaii. See also *Historical Statistics, Colonial Times to 1957*, series H 488-499]

ITEM	1930	1935	1940	1946	1950	1955	1960
Parks:							
Number	6,368	6,989	8,339	n.a.	8,671	9,558	10,200
Acreage	201,067	228,093	207,753	n.a.	301,492	323,049	362,935
Recreation leadership:							
Leaders, total	16,249	12,604	14,768	20,130	27,712	31,649	41,480
Full time, year-round	2,028	2,111	2,703	3,561	4,571	5,454	5,824
Playgrounds under leadership	4,236	4,386	5,105	5,288	6,426	7,113	7,947
Selected facilities:							
Ball diamonds	2,139	2,027	2,023	2,075	7,967	8,919	10,103
Bathing beaches	135	143	164	175	158	158	157
Golf courses	108	197	201	190	222	225	270
Outdoor swimming pools	387	402	449	550	549	695	803
Tennis courts	5,120	5,534	7,003	6,399	6,328	6,039	6,770
Recreation buildings	426	707	961	969	1,419	1,718	1,867
Indoor recreation centers	1,422	2,048	2,080	1,737	2,617	3,758	6,369

n.a. Not available.

Source: 1930-1955, Resources for the Future, Inc., Washington, D.C.; *Statistics on Outdoor Recreation*. (Figures are based on reports of the National Recreation Association.) Beginning 1960, National Recreation Association, unpublished data.

Public Lands, Parks, and Recreation

No. 275. MUNICIPAL AND COUNTY PARKS—SUMMARY, STATES: 1960

STATE	PARKS		PAID EMPLOYEES		Play- grounds under leadership	Recre- ation build- ings and indoor centers	EXPENDITURES (\$1,000)		
	Num- ber	Acre- age	Total	Leader- ship			Land, build- ings, per- manent improve- ments	Current oper- ating expenses	Capital expendi- tures, 1956-1960
United States	24,708	1,015,461	185,979	99,696	20,107	16,970	151,339	414,256	566,528
New England	2,174	52,389	13,448	7,319	1,611	852	7,007	18,553	25,862
Maine	128	1,243	527	344	93	43	67	716	420
New Hampshire	114	3,111	504	252	73	45	242	763	946
Vermont	123	1,601	455	329	51	82	67	446	189
Massachusetts	1,204	30,314	7,215	3,696	836	296	2,836	9,450	15,206
Rhode Island	116	1,120	849	424	126	71	68	849	452
Connecticut	489	14,410	3,898	2,274	432	315	3,726	6,329	8,647
Middle Atlantic	4,241	127,246	43,257	24,285	4,341	2,673	39,194	90,656	114,426
New York	2,400	74,969	26,673	14,627	2,020	1,339	30,906	56,849	69,650
New Jersey	749	25,277	6,828	3,786	821	558	3,473	12,126	12,689
Pennsylvania	1,083	27,000	9,756	5,872	1,500	776	4,815	21,381	32,097
East North Central	5,206	282,108	43,924	22,018	4,030	3,026	31,837	110,146	131,768
Ohio	1,322	115,271	8,989	4,710	1,083	642	6,591	21,319	29,717
Indiana	427	14,355	3,278	1,806	484	329	1,369	8,459	14,191
Illinois	1,402	78,849	13,932	6,126	888	820	11,497	45,401	51,712
Michigan	1,289	46,549	10,611	5,404	1,130	847	7,309	21,620	28,782
Wisconsin	766	28,584	7,114	3,972	445	388	5,071	13,346	7,366
West North Central	2,202	70,591	14,491	7,851	1,476	894	7,381	24,152	32,801
Minnesota	780	18,149	4,834	2,817	520	438	1,727	7,605	9,393
Iowa	487	13,426	2,400	1,379	263	128	1,033	2,744	3,671
Missouri	349	19,332	3,628	1,513	297	127	3,115	8,349	12,351
North Dakota	76	3,600	430	215	42	51	275	853	585
South Dakota	81	1,564	403	179	49	26	184	570	466
Nebraska	163	6,232	804	309	105	30	347	1,678	2,120
Kansas	266	8,288	1,997	1,438	191	94	699	2,359	5,124
South Atlantic	3,747	101,382	19,165	10,459	2,446	1,741	19,798	46,808	83,746
Delaware	86	1,292	359	222	36	19	61	560	558
Maryland	375	12,514	4,023	2,451	415	475	4,193	7,982	24,538
Dist. of Columbia	840	139,478	1,872	717	110	117	4,317	9,685	27,546
Virginia	375	9,155	2,771	1,811	482	298	1,112	4,688	4,382
West Virginia	100	3,397	1,295	713	248	91	575	1,826	1,462
North Carolina	476	10,260	2,320	1,467	345	206	1,360	3,752	5,094
South Carolina	212	1,962	687	476	120	84	364	1,092	838
Georgia	426	5,929	1,513	822	236	140	3,845	3,484	7,832
Florida	857	17,395	4,325	1,780	454	311	3,961	13,739	11,497
East South Central	904	31,906	6,726	3,086	865	602	3,808	10,445	16,790
Kentucky	198	8,175	1,759	960	213	234	750	2,077	1,623
Tennessee	365	12,136	2,135	1,023	306	201	1,641	4,333	6,851
Alabama	238	5,121	1,381	680	212	97	921	2,607	2,221
Mississippi	103	6,474	1,451	423	134	70	496	1,430	6,095
West South Central	1,744	62,572	7,732	3,222	1,033	688	6,097	18,448	27,384
Arkansas	25	3,487	229	50	17	21	324	395	712
Louisiana	272	4,754	1,596	915	306	83	1,214	3,813	7,138
Oklahoma	306	10,802	1,089	437	114	79	333	1,937	1,841
Texas	1,141	43,529	4,818	1,820	602	505	4,227	12,302	17,692
Mountain	1,026	119,937	5,933	3,854	795	892	3,992	10,367	14,230
Montana	129	14,434	438	295	53	91	158	517	393
Idaho	96	2,656	573	325	59	55	269	530	486
Wyoming	35	7,374	102	71	16	19	84	173	159
Colorado	334	32,023	1,662	848	157	228	1,254	3,930	5,118
New Mexico	133	1,674	595	424	67	80	724	584	1,595
Arizona	173	56,533	1,633	1,152	275	256	578	3,223	4,382
Utah	87	4,121	748	611	150	149	425	872	1,322
Nevada	39	1,122	182	128	13	14	501	239	776
Pacific	3,464	167,330	31,303	17,602	3,510	5,602	32,224	84,680	119,521
Washington	561	13,974	2,336	985	264	236	1,382	6,163	7,590
Oregon	466	13,628	1,555	703	130	144	1,551	3,834	10,298
California	2,182	135,520	20,506	15,509	2,957	5,128	25,570	71,902	97,392
Alaska	14	850	24	6	4	1	110	87	400
Hawaii	241	3,358	882	399	155	93	3,610	2,695	3,841

¹ 32,108 acres are outside the District of Columbia.

Source: National Recreation Association, New York, N.Y.; unpublished data.

Public Outdoor Recreation

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No. 276. ESTIMATED PUBLIC EXPENDITURES FOR OUTDOOR RECREATION: 1951 TO 1960

[In millions of 1960 dollars. Includes Alaska, Hawaii, Puerto Rico, and Virgin Islands]

YEAR	Total	Federal ¹	State ¹	Local	YEAR	Total	Federal ¹	State ¹	Local
Total, 1951-1960	8,559	1,218	1,507	5,834	1955-----	847	88	150	608
1951-----	553	70	117	366	1956-----	854	98	149	607
1952-----	618	76	125	417	1957-----	910	130	154	626
1953-----	682	78	135	468	1958-----	1,079	195	172	712
1954-----	740	82	141	518	1959-----	1,126	206	178	742
					1960-----	1,151	194	187	770

¹ Direct outlay.

Source: Outdoor Recreation Resources Review Commission; *Public Expenditures for Outdoor Recreation*, Study Report No. 25, 1962.

No. 277. PUBLIC OUTDOOR RECREATION AREAS—NONURBAN, BY LEVEL OF GOVERNMENT, TYPE OF AGENCY, AND SIZE: 1960

[Excludes Alaska and Hawaii. Comprises publicly owned and managed land and water areas outside of city limits, upon which recreation, including hunting and fishing, is a recognized use. Includes the entire acreage of National, State, county, and local parks, monuments, historic sites, memorials, geological and archeological areas, forests, recreation areas, public hunting and shooting grounds, water access areas, fish hatcheries, and wildlife refuges where the public is permitted to engage in recreational activities]

TYPE OF AGENCY AND SIZE OF AREA	TOTAL		FEDERAL		STATE		COUNTY AND OTHER LOCAL	
	Number of areas	Acreage (1,000)	Number of areas	Acreage (1,000)	Number of areas	Acreage (1,000)	Number of areas	Acreage (1,000)
Total	24,048	234,000	1,059	198,341	20,429	32,113	2,560	3,546
TYPE OF AGENCY¹								
Park agencies	4,027	22,057	182	18,078	3,195	3,600	650	379
Forest agencies	1,177	186,191	205	165,167	837	17,663	135	2,361
Fish and wildlife agencies ²	4,912	18,236	325	9,625	4,440	8,003	147	8
Water development agencies ³	82	903	41	766	29	112	12	25
Transportation agencies	11,876	3,976	275	3,944	11,586	32	15	(4)
Special authorities	139	1,331	30	648	78	445	31	238
Other agencies ⁴	1,835	2,306	1	113	264	1,058	1,570	535
SIZE OF AREA								
40 acres and under	17,083	69	71	1	16,151	60	861	8
41 to 100 acres	974	73	45	3	742	57	187	13
101 to 500 acres	2,805	606	132	34	1,423	350	1,260	222
501 to 1,000 acres	743	538	73	54	582	423	88	61
1,001 to 5,000 acres	1,171	2,702	189	475	871	1,996	111	231
5,001 to 25,000 acres	667	7,651	187	2,235	446	4,998	34	418
25,001 to 100,000 acres	317	16,153	145	7,297	153	7,843	19	1,013
100,001 to 1,000,000 acres	206	73,309	137	58,871	59	12,858	10	1,580
Over 1,000,000 acres	82	132,899	80	129,371	2	3,528		

¹ The department, bureau, division, or board specifically charged with management of the resource for recreation purposes.

² Includes a few divisions or departments whose responsibility is general conservation, rather than concern for a specific function.

³ Includes Corps of Engineers, Bureau of Reclamation, and Tennessee Valley Authority; at the State and local level, includes flood control, watershed management, drainage and reclamation, and water supply agencies.

⁴ Less than 500 acres.

⁵ Includes land offices, city administrations, schools, historical societies, special districts, etc.

Source: Outdoor Recreation Resources Review Commission; *Outdoor Recreation For America*, January 31, 1962.

Public Lands, Parks, and Recreation

No. 278. NUMBER OF DAYS PARTICIPATION PER PERSON 12 YEARS OLD AND OVER IN SELECTED OUTDOOR ACTIVITIES, BY SEASON: 1960-61

[Excludes Alaska and Hawaii. Data refer to number of days that individuals participated in specified activities, regardless of amount of time spent in participation. Based on a nationwide survey of outdoor recreation habits and preferences of persons 12 years old and over, conducted by the Bureau of the Census, and consisting of 4 separate samples, each involving approximately 4,000 interviews]

OUTDOOR ACTIVITY	Total	Summer, June-Aug. 1960	Fall, Sept.-Nov. 1960	Winter, Dec. 1960- Feb. 1961	Spring, Mar.-May 1961
Driving for pleasure	20.73	6.68	4.34	4.66	5.05
Walking for pleasure ¹	21.14	5.39	4.98	5.56	5.21
Playing outdoor games or sports	12.71	3.63	2.77	2.58	3.73
Swimming, water skiing	6.88	5.45	0.68	0.17	0.58
Sightseeing	5.91	2.20	1.38	1.17	1.18
Bicycling	5.15	1.75	0.93	0.87	1.60
Fishing, hunting	6.05	2.18	1.48	1.18	1.21
Attending outdoor sports events	3.75	1.32	1.23	0.45	0.75
Picnicking, camping	4.39	2.60	0.82	0.23	0.60
Boating, canoeing, sailing	2.18	1.34	0.42	0.14	0.28
Horseback riding	1.25	0.42	0.21	0.20	0.42
Ice skating, snow skiing, sledding, tobogganing	1.13	(²)	(²)	1.02	0.11
Attending outdoor concerts, drama, etc.	0.39	0.21	0.08	0.03	0.07
Miscellaneous	0.57	0.40	0.08	0.05	0.04

¹ Includes nature walks, hiking, and mountain climbing.

² Less than 0.005 days per person.

Source: Outdoor Recreation Resources Review Commission; *Outdoor Recreation for America*, January 31, 1962.

No. 279. NUMBER AND COST OF STATE FISHING AND HUNTING LICENSES, BY STATES: 1962

[For year ending June 30. Excludes Migratory Waterfowl Stamps (Duck Stamps)]

STATE	PAID LICENSE HOLDERS ¹ (1,000)		COST OF LICENSES ² (\$1,000)		STATE	PAID LICENSE HOLDERS ¹ (1,000)		COST OF LICENSES ² (\$1,000)	
	Fish-ing	Hunt-ing	Fish-ing	Hunt-ing		Fish-ing	Hunt-ing	Fish-ing	Hunt-ing
United States	19,403	13,754	54,163	63,984	Missouri	691	333	2,510	1,600
Alabama	413	309	787	734	Montana	236	203	460	1,428
Alaska	54	37	343	310	Nebraska	221	193	468	718
Arizona	212	123	808	860	Nevada	63	44	228	644
Arkansas	457	255	1,183	807	New Hampshire	121	80	445	573
California	1,438	626	6,247	3,722	New Jersey	139	104	758	608
Colorado	414	263	1,502	3,844	New Mexico	142	111	547	819
Connecticut	108	54	415	192	New York	727	685	2,880	3,336
Delaware	11	24	18	58	North Carolina	319	383	933	1,341
Florida	503	170	1,068	867	North Dakota	73	81	125	487
Georgia	496	241	589	618	Ohio	821	626	1,683	1,297
Hawaii	4	7	9	34	Oklahoma	463	212	1,036	600
Idaho	239	171	1,007	1,013	Oregon	436	311	1,578	1,905
Illinois	701	469	1,487	1,827	Pennsylvania	602	682	2,014	4,254
Indiana	754	608	1,014	859	Rhode Island	15	12	52	42
Iowa	414	308	963	878	South Carolina	272	172	509	528
Kansas	271	206	827	954	South Dakota	148	209	294	1,826
Kentucky	316	229	1,022	888	Tennessee	650	431	1,129	1,903
Louisiana	223	249	272	633	Texas	833	504	1,791	1,693
Maine	229	176	758	1,035	Utah	173	178	528	1,774
Maryland	112	159	339	742	Vermont	101	106	240	604
Massachusetts	184	116	578	628	Virginia	324	351	883	1,422
Michigan	928	818	2,713	4,528	Washington	378	301	1,639	2,189
Minnesota	1,288	473	2,495	1,527	West Virginia	180	208	556	739
Mississippi	286	198	543	495	Wisconsin	1,060	442	3,621	2,541
					Wyoming	132	113	679	2,000

¹ Resident and nonresident. ² Total cost to fishermen or hunters for all licenses, permits, tags, stamps, etc.

Source: Dept. of the Interior, Fish and Wildlife Service; mimeographed release.

Hunting and Fishing

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No. 280. NUMBER AND COST OF HUNTING AND FISHING LICENSES: 1950 TO 1962

[For years ending June 30. Beginning 1959, includes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1957*, series H 523-524]

ITEM	1950	1955	1957	1958	1959	1960	1961	1962
Hunting licenses:								
Paid license holders.....	1,000	12,638	14,192	14,918	14,764	11,924	11,786	11,709
Resident.....	1,000	12,441	13,853	14,508	14,330	9,539	9,429	9,439
Nonresident.....	1,000	197	339	410	434	2,385	2,357	2,360
Cost to hunters.....	\$1,000	37,641	42,791	47,847	53,608	57,811	60,981	64,063
Fishing licenses:								
Paid license holders.....	1,000	15,338	18,855	19,277	20,178	20,007	19,081	19,394
Resident.....	1,000	13,309	16,212	16,645	17,402	17,149	15,948	16,679
Nonresident.....	1,000	2,029	2,643	2,631	2,776	2,868	3,133	2,715
Cost to anglers.....	\$1,000	34,018	39,502	42,770	45,410	50,375	52,143	52,851
Federal duck stamps issued.....		1,942	2,182	2,332	2,355	2,166	1,628	1,728
								1,346

¹ Excludes Colorado, Michigan, Minnesota, and Wisconsin.

Source: Dept. of the Interior, Fish and Wildlife Service; unpublished data.

No. 281. FISHERMEN AND HUNTERS, BY GEOGRAPHIC DIVISION, SEX, AND AGE: 1955 AND 1960

[In thousands of persons 12 years old and over, except as noted. For 1960, includes Alaska and Hawaii. Based on a sample of approximately 18,000 households. For composition of divisions, see fig. I, p. XII]

ITEM	1955		1960					
	Total persons	Total who fished and/or hunted	Total persons	Total who fished and/or hunted	Total who fished and/or hunted	Total who fished	Total who hunted	On trips lasting more than 1 day
Total.....	118,366	24,917	131,226	30,435	9,525	25,323	14,637	8,052
By division:								3,305
New England.....	7,919	1,224	8,349	1,368	354	1,205	517	313
Middle Atlantic.....	24,869	3,539	26,493	3,432	800	2,569	1,723	496
East North Central.....	25,733	5,489	26,833	6,316	1,986	5,317	2,985	1,877
West North Central.....	9,201	2,913	10,149	3,883	1,181	2,855	1,709	1,169
South Atlantic.....	14,336	3,223	17,798	4,423	1,317	3,695	2,045	696
East South Central.....	7,959	1,903	9,277	2,778	939	2,207	1,510	488
West South Central.....	10,250	2,560	11,837	3,666	1,217	3,133	1,750	1,002
Mountain.....	4,529	1,369	5,222	1,646	846	1,372	1,120	799
Pacific.....	13,570	2,037	15,268	3,422	828	2,971	1,279	1,210
By population:								
Big cities.....	21,010	2,169	22,059	2,365	432	2,162	635	799
Small cities and suburbs.....	34,263	6,001	35,358	6,376	1,474	5,656	2,194	2,346
Towns.....	21,729	5,337	21,147	5,334	1,861	4,528	2,667	1,343
Rural areas.....	41,364	11,410	52,662	16,359	5,758	12,976	9,141	3,564
By sex:								
Men.....	50,082	16,293	62,732	23,171	8,820	18,379	13,612	5,922
Women.....	1 53,705	1 4,836	68,494	7,264	705	6,944	1,025	2,180
By age:								
12 to 15 years.....	14,579	3,788	13,210	4,118	1,212	3,717	1,613	1,058
16 to 17 years.....			5,548	1,577	592	1,173	996	304
18 to 24 years.....	12,130	2,517	15,216	3,838	1,443	2,952	2,329	770
25 to 34 years.....	21,790	5,104	21,929	5,876	1,991	4,816	3,051	1,631
35 to 44 years.....	23,730	5,978	23,523	6,097	1,868	5,075	2,890	1,728
45 to 64 years.....	33,220	6,272	36,287	7,378	2,062	6,283	3,157	2,250
65 years and over.....	12,917	1,258	15,513	1,549	359	1,307	601	311

¹ Persons 18 years old and over.

Source: Dept. of the Interior, Fish and Wildlife Service; *National Survey of Fishing and Hunting, 1955 and 1960*, and unpublished data.

No. 282. EXPENDITURES OF FISHERMEN AND HUNTERS: 1960

[Includes Alaska and Hawaii. Data refer to persons 12 years old and over who fished and/or hunted. Based on a sample of approximately 18,000 households]

ITEM	TOTAL PERSONS		PERSONS WHO FISHED		PERSONS WHO HUNTED	
	Total spent (\$1,000)	Average per person ¹	Total spent (\$1,000)	Average per person	Total spent (\$1,000)	Average per person
Total	3,852,116	\$126.57	2,690,872	\$106.26	1,161,242	\$79.34
Food	286,983	9.43	208,781	8.24	78,252	5.35
Lodging	89,516	2.94	62,129	2.45	27,391	1.87
Transportation:						
Automobile	529,749	17.41	369,762	14.60	159,987	10.93
Bus, rail, air, and water	14,759	.48	6,380	.25	8,379	.57
Equipment:						
Boats and motors	881,051	28.95	759,627	30.00	121,423	8.30
General auxiliary equipment ²	331,964	10.91	236,333	9.33	95,631	6.53
Fishing and/or hunting equipment	663,789	21.81	508,326	12.18	355,464	24.20
Licenses, tags, and permits	110,844	3.64	52,743	2.08	55,098	3.97
Duck stamps	4,575	.15			4,575	.31
Annual lease and privilege fees	23,435	.77	19,034	.51	10,500	.72
Daily entrance and privilege fees	49,070	1.63	34,543	1.36	15,125	1.03
Bait, guide fees, and other trip expenses	609,685	20.03	572,596	22.61	37,091	2.53
Other ³	256,097	8.41	66,768	2.64	189,326	12.94

¹ Includes expenditures of those who fished or hunted or both.

² Includes tents, sleeping gear, cooking and eating utensils, special clothing, lanterns, binoculars, trailers, cabins, and other equipment used primarily for fishing and hunting.

³ Includes boat launching fees for fishermen, dogs for hunters, costs of fishing and hunting magazines, general club dues, and other miscellaneous expenditures.

Source: Dept. of the Interior, Fish and Wildlife Service; *National Survey of Fishing and Hunting, 1960*.

No. 283. PERSONAL CONSUMPTION EXPENDITURES FOR RECREATION: 1940 TO 1962

[In millions of dollars. Represents market value of purchases of goods and services by individuals and nonprofit institutions. Beginning 1960, adjusted to include Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1957*, series H 500-515]

TYPE OF PRODUCT OR SERVICE	1940	1945	1950	1955	1958	1959	1960	1961	1962
Total recreation expenditures	3,761	6,139	11,278	14,220	16,842	18,309	19,524	20,533	21,555
Books and maps	234	520	677	888	1,181	1,353	1,545	1,680	1,677
Magazines, newspapers, and sheet music	580	965	1,495	1,917	2,233	2,309	2,439	2,555	2,645
Nondurable toys and sport supplies	306	553	1,396	1,842	2,162	2,378	2,470	2,621	2,780
Wheel goods, durable toys, sports equipment, boats, and pleasure aircraft	254	400	878	1,397	1,888	2,017	2,138	2,224	2,386
Radio and television receivers, records, and musical instruments	494	344	2,457	2,792	3,067	3,420	3,616	3,764	4,001
Radio and television repair	32	88	281	522	720	784	860	904	950
Flowers, seeds, and potted plants	201	378	524	721	815	905	985	1,058	1,086
Admissions to specified spectator amusements	904	1,714	1,775	1,700	1,736	1,875	1,945	2,049	2,123
Motion picture theaters	735	1,450	1,367	1,217	1,168	1,271	1,298	1,369	1,405
Legitimate theaters and opera, and entertainments of nonprofit institutions (except athletics)	71	148	185	251	318	339	373	400	422
Spectator sports	98	116	223	232	255	265	274	280	296
Clubs and fraternal organizations ¹	203	281	467	582	716	744	761	788	798
Commercial participant amusements ²	197	284	463	615	794	868	959	1,031	1,088
Parl-mutuel net receipts	55	153	237	375	447	473	505	523	588
Other ³	292	459	628	869	1,088	1,183	1,301	1,336	1,427

¹ Gross receipts less cash benefits of fraternal, patriotic, and women's organizations except insurance; and dues and fees of athletic, social, and luncheon clubs, and school fraternities.

² Billiard parlors; bowling alleys; dancing, riding, shooting, skating, and swimming places; amusement devices and parks; daily fee golf greens fees; golf instruction, club rental, and caddy fees; sightseeing buses and guides; and private flying operations.

³ Photo developing and printing, photographic studios, collectors' net acquisitions of stamps and coins, hunting dog purchase and training, sports guide service, veterinary service, purchase of pets, camp fees, nonvending coin machine receipts minus payoff, and other commercial amusements.

Source: Dept. of Commerce, Office of Business Economics; *National Income Supplement, 1954, U.S. Income and Output*, a supplement to the *Survey of Current Business*, and *Survey of Current Business*, July 1962 and July 1963.

No. 284. SELECTED RECREATIONAL ACTIVITIES: 1950 TO 1963

[Excludes Alaska and Hawaii, except as noted. See also *Historical Statistics, Colonial Times to 1957*, series H 516-522, and H 525]

ACTIVITY	1950	1955	1958	1959	1960	1961	1962	1963
Baseball, major leagues:								
Attendance ¹	1,000	17,659	16,980	17,855	19,565	20,261	19,118	21,752
Regular season	1,000	17,463	16,617	17,461	19,144	19,011	18,895	21,375
National League	1,000	8,321	7,674	10,165	9,994	10,685	8,732	11,360
American League	1,000	9,142	8,943	7,296	9,149	9,227	10,163	10,015
World series	1,000	190	362	394	421	350	228	377
Softball, amateur: ²								
Teams	1,000	355	367	372	375	378	380	384
Leagues	1,000	59	61	62	63	63	64	68
Youth program:								
Teams	1,000			2.5	2.8	3.5	4.8	5.5
Leagues	1,000				0.5	0.7	0.8	1.0
Participants	1,000			25	40	48	75	82
Basketball, professional, National Basketball Association, attendance ³	1,000	n.a.	n.a.	1,626	1,705	1,986	2,058	2,163
Football, professional, National Football League, attendance	1,000	2,008	2,608	3,070	3,198	3,195	4,023	4,209
Regular season	1,000	1,978	2,522	3,006	3,140	3,128	3,984	4,003
Championship games	1,000	30	86	64	58	67	39	65
Football, collegiate: ⁴								
Teams	number	674	621	618	628	620	616	610
Attendance	1,000	18,962	17,267	19,281	19,615	20,403	20,678	21,227
Boxing, professional matches: ⁵								
Boxers	number	3,940	3,120	4,170	3,782	2,920	2,164	1,960
Gross receipts	\$1,000	3,800	6,335	5,624	4,101	5,902	5,650	7,225
Horseracing: ⁶								
Number of racing days		4,018	4,899	5,348	5,963	6,099	6,280	6,532
Total attendance	1,000	29,201	38,503	43,373	45,451	46,879	49,560	50,582
Parimutuel turnover	mil. dol.	1,638	2,502	3,089	3,246	3,358	3,467	3,669
Revenue to States	mil. dol.	98	187	222	243	258	265	283
Total monies distributed ⁷	mil. dol.	47	85	101	108	111	119	127
Greyhound racing: ⁸								
Number of racing days		1,738	2,143	2,187	2,395	2,478	2,605	2,646
Total attendance	1,000	6,083	7,131	7,047	7,769	7,924	8,465	8,983
Parimutuel turnover	mil. dol.	167	242	262	208	322	336	366
Revenue to States	mil. dol.	11	17	19	19	22	23	28
Total monies distributed ⁷	mil. dol.	n.a.	n.a.	n.a.	9	7	7	9
Tempin bowling: ⁹								
Establishments	number	6,325	6,636	7,475	8,191	8,997	9,906	10,610
Lanes	number	52,488	58,203	73,081	87,475	107,908	130,805	148,535
Membership:								
American Bowling Congress	1,000	1,417	1,738	2,605	3,143	3,665	4,370	4,853
Women's International Bowling Congress	1,000	496	706	1,005	1,232	1,543	1,906	2,212
American Jr. Bowling Congress	1,000	24	67	182	217	330	410	443
Duckpin bowling: ⁹								
Establishments	number	463	556	601	612	653	678	720
Lanes	number	5,550	6,875	7,248	7,298	8,707	8,962	9,199
Teams	number	28,665	46,552	51,700	51,924	62,067	65,318	76,452
Motion picture theaters: ¹⁰								
Average weekly attendance	millions	60	46	40	42	40	42	43
Gross receipts	mil. dol.	1,320	1,185	1,168	1,200	1,483	1,485	1,551
Outboard motors and boats: ¹¹								
Motors in use	1,000	2,811	4,210	5,385	5,650	5,800	6,100	6,250
Motors sold	1,000	367	515	504	540	468	343	360
Value (retail)	mil. dol.	63	153	234	253	221	155	170
Average horsepower		6.9	12.9	20.7	23.7	27.4	29.9	30.3
Boats sold	1,000	131	258	316	329	294	287	289
Boat trailers sold	1,000	18	129	178	186	206	178	160

n.a. Not available.

¹ Source: *World Almanac*. ² Amateur Softball Association of America. Beginning 1962, includes Alaska and Hawaii. ³ Youth program established 1958. ⁴ Data are for the season ending in year shown. ⁵ National Collegiate Athletic Association. ⁶ Source: *The Ring*. Includes Hawaii; beginning 1963 includes Alaska and Guam. Data for number of boxers include all boxers listed for one or more bouts. 1963 data preliminary. ⁷ National Association of State Racing Commissioners. Horseracing includes thoroughbred, harness, quarter horse, and fairs.

⁸ Distributed in stakes and purses. ⁹ American Bowling Congress. Data are for the season ending in year shown. Beginning 1959, includes Alaska and Hawaii. ¹⁰ National Duckpin Bowling Congress. ¹¹ Source: *The Film Daily Yearbook of Motion Pictures*, 1963. 1962 data estimated. ¹² Outboard Industry Association. Beginning 1959, includes Alaska and Hawaii. 1963 data preliminary.

Source: Compiled from sources listed in footnotes.

No. 285. VOLUME AND CHARACTERISTICS OF TRAVEL: 1963

[Covers first 6 months. Includes Alaska and Hawaii. Based on interviews with nationwide probability sample of about 6,000 households in April and July 1963 concerning trips that ended between January 1 and June 30, 1963. Subject to sampling error]

ITEM	TRIPS ¹		TRAVELERS ²		ITEM	TRIPS ¹		TRAVELERS ²	
	Number (millions)	Percent	Number (millions)	Percent		Number (millions)	Percent	Number (millions)	Percent
Total	122	100	216	100	Distance:				
Purpose of trip:					Under 100 miles	58	48	104	48
Business	30	25	36	17	100 to 199 miles	35	29	64	30
Visit friends and relatives	47	39	98	45	200 to 499 miles	18	15	30	14
Other pleasure trips	21	17	42	19	500 or more miles	9	7	14	6
Personal and family affairs	24	19	40	19	Outside U.S.	2	1	4	2
Means of transportation:					Duration of trip:				
Automobile	100	82	190	88	1-day trip	8	7	15	7
Bus	6	5	6	3	Overnight trips:				
Air	7	6	9	4	1 night	40	32	78	36
Rail	4	3	5	2	2 nights	33	27	61	28
Other	5	4	6	3	3 to 5 nights	23	19	35	16
Size of party:					6 to 9 nights	8	7	12	6
1 person	71	58	71	33	10 or more nights	10	8	15	7
2 persons	28	23	55	25	Accommodations ³ :			665	100
3 or 4 persons	17	14	58	27	Commercial lodgings			187	28
5 or more persons	6	5	32	15	Friends and relatives			384	58
					Own cottage			44	7
					Other			50	7

¹ A trip involves one or more members of a household going out of town overnight or going to a place 100 miles or more on a one-day trip. Comprises trips taken for all purposes, including attending school out-of-town.

² A traveler is a person on a trip and is counted each time he takes a trip.

³ Accommodations shown in traveler-night units, defined as the number of nights each person spent on the trip, exclusive of accommodations used by students while attending school out-of-town.

Source: Dept. of Commerce, Bureau of the Census; *National Travel Survey: 1963*, and unpublished data.

No. 286. FOREIGN TRAVEL—TRAVELERS AND EXPENDITURES: 1929 TO 1963

(Travelers in thousands; expenditures in millions of dollars. Covers residents of conterminous U.S., Alaska, Hawaii, and Puerto Rico)

ITEM AND COUNTRY	1929	1937	1947	1950	1955	1960	1961	1962	1963
NUMBER OF TRAVELERS¹									
Total, overseas	517	435	435	676	1,075	1,634	1,575	1,767	1,990
Means of transport from U.S.:									
Sea	n.a.	n.a.	n.a.	298	318	317	288	280	318
Air	n.a.	n.a.	n.a.	378	757	1,317	1,307	1,487	1,672
Region and country:									
Europe and Mediterranean	350	248	149	302	482	832	826	931	1,102
West Indies and Central America	136	153	245	323	522	641	550	609	631
South America	8	9	27	38	34	71	83	85	97
Other	23	24	14	18	37	90	116	142	160
EXPENDITURES²									
Total	688	470	716	1,022	1,612	2,640	2,642	2,882	3,190
Transportation: ³									
Foreign flag carriers	164	95	55	145	201	4,490	4,515	4,575	4,625
United States flag carriers	41	27	88	123	258	4,405	4,380	4,415	4,495
Expenditures abroad:									
Canada	178	156	241	261	306	380	425	479	522
Mexico	36	44	140	172	255	365	370	395	448
Total overseas areas	269	148	192	321	592	1,000	952	1,018	1,100
Europe and Mediterranean	213	97	107	225	430	704	630	660	735
West Indies and Central America	37	35	56	61	107	166	160	178	180
South America	5	4	16	22	45	48	55	56	56
Other	14	12	13	13	33	85	114	125	129

n.a. Not available.

¹ Excludes the following: Travel to Canada and Mexico; travel between conterminous U.S. and Alaska, Hawaii, Puerto Rico, and the Virgin Islands; cruise travelers; military personnel and other Government employees and their dependents stationed abroad; and U.S. citizens residing abroad. ² Includes shore expenditures of cruise travelers; excludes travel expenditures of military personnel and other Government employees and their dependents stationed abroad, and U.S. citizens residing abroad. ³ Excludes passenger fares of emigrant aliens.

⁴ New series; not comparable with years prior to 1960.

Source: Dept. of Commerce, Office of Business Economics; *Survey of Current Business*, and unpublished data.

No. 287. TRAVEL TO EUROPE AND THE MEDITERRANEAN AREA—TRAVELERS AND AVERAGE EXPENDITURE: 1950 TO 1963

[Travelers in thousands. Covers residents of conterminous U.S., Alaska, Hawaii, and Puerto Rico, except as noted]

ITEM	1950	1955	1959	1960	1961	1962	1963
Total travelers.....	302	482	705	832	826	931	1,102
U.S. born.....	n.a.	299	465	569	582	649	773
Foreign born.....	n.a.	183	240	263	244	282	329
Means of transport from U.S.:							
Sea.....	n.a.	214	204	280	206	221	254
Air.....	n.a.	268	501	602	620	710	848
Average expenditure and stay:							
Average per trip ¹dollars..	742	889	851	841	757	704	667
Average length of stay ²days..	264	56	n.a.	n.a.	n.a.	n.a.	45
Average per day.....dollars..	12.04	15.88	n.a.	n.a.	n.a.	n.a.	14.99

n.a. Not available.

¹ Excludes transatlantic passenger fares.

² U.S. citizens only.

Source: Dept. of Commerce, Office of Business Economics; *Survey of Current Business*, and unpublished data;

No. 288. FOREIGN TRAVEL TO THE UNITED STATES—TRAVELERS, 1955 TO 1963, AND EXPENDITURES, 1947 TO 1963

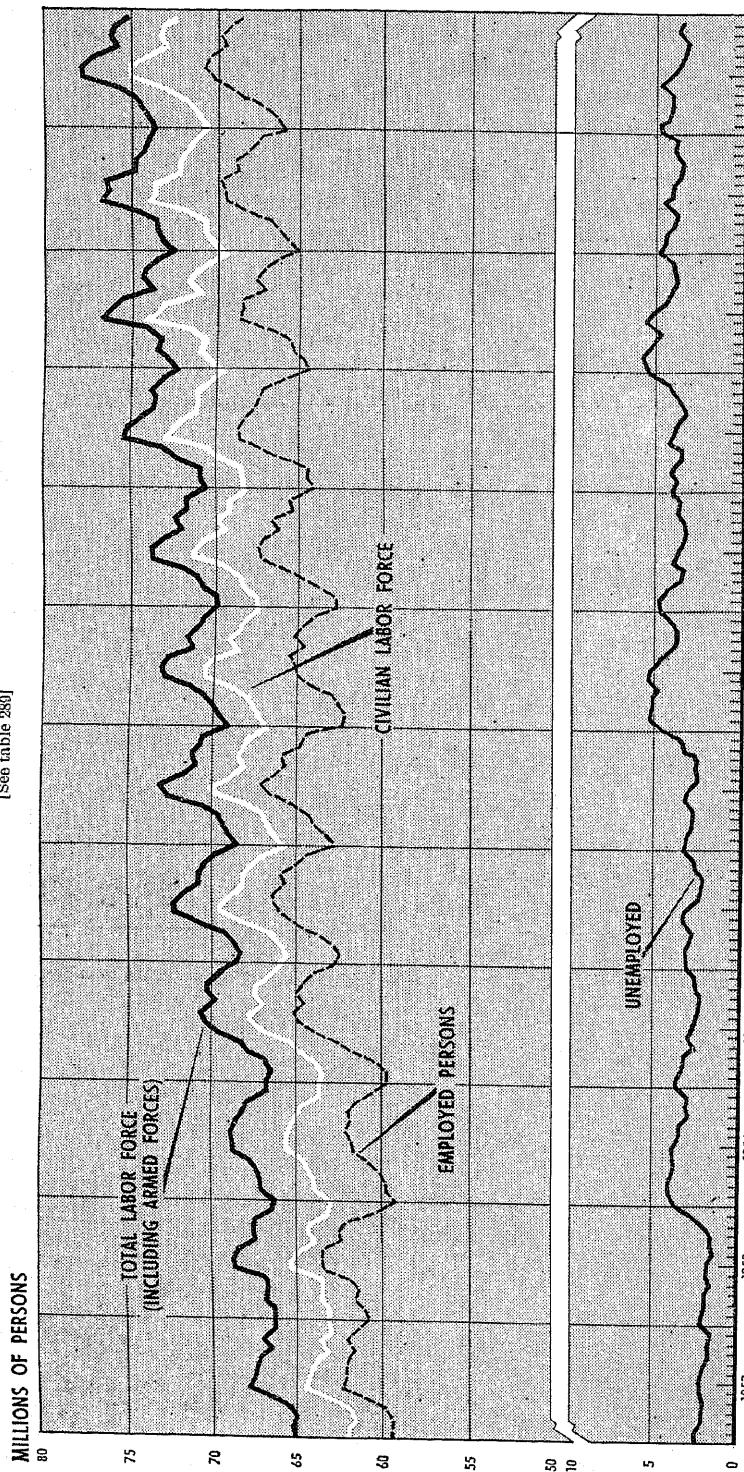
[Includes travelers for business and pleasure, foreigners in transit through the United States, and students; excludes travel by foreign government personnel and foreign businessmen employed in the United States]

AREA OF ORIGIN	TRAVELERS (1,000)				EXPENDITURES (\$1,000,000)					
	1955	1960	1962	1963	1947	1950	1955	1960	1962	1963
Total.....	n.a.	n.a.	n.a.	n.a.	364	419	654	875	870	934
Canada.....	n.a.	n.a.	n.a.	n.a.	152	103	304	469	392	372
Mexico.....	n.a.	n.a.	n.a.	n.a.	64	69	110	182	217	232
Overseas areas.....	332	602	713	847	148	157	180	224	261	330
Europe and Mediterranean.....	131	274	353	398	64	56	61	90	105	113
West Indies, Central America, and South America.....	160	249	268	332	63	77	93	86	102	147
Other.....	32	79	92	117	22	24	26	48	54	70

n.a. Not available.

Source: Dept. of Commerce, Office of Business Economics; *Survey of Current Business*, and unpublished data

FIG. XIII. TRENDS IN THE LABOR FORCE: 1952 to 1963
 [See table 289]



Source: Chart prepared by Dept. of Commerce, Bureau of Census. Data for 1952-June 1959 are from Bureau of the Census; thereafter, Dept. of Labor, Bureau of Labor Statistics.

Section 8

Labor Force, Employment and Earnings

This section presents statistics dealing with the characteristics of the economically active segment of the population, the labor force; its distribution by occupation and industry affiliation; and the supply of, demand for, and conditions of labor.

The chief sources of these data are the Decennial Census of Population conducted by the Bureau of the Census (see text, p. 1); *Employment and Earnings, Monthly Labor Review*, and *Monthly Report on the Labor Force*, issued by the Bureau of Labor Statistics; and *Farm Labor*, issued monthly by the Statistical Reporting Service, Department of Agriculture.

Types of data.—Statistics shown in this section are of two types. One type is obtained by the "population approach" represented by the Census of Population of the Bureau of the Census and by the monthly labor force survey of the Bureau of Labor Statistics, for which data are collected by the Bureau of the Census as a part of the Current Population Survey (see text, pp. 1 and 215). This approach involves direct enumeration and interrogation to obtain information on employment activity from workers or members of workers' households. Each employed worker is counted only once, even though he may have held two or more jobs during a given period.

The second type of data is obtained by the "establishment approach," represented by the industry surveys of the Bureau of Labor Statistics and the surveys of the Department of Agriculture's Statistical Reporting Service. These data are based on reports from employers, i.e., farms, businesses, or industrial establishments. Such data as wages, hours worked, labor turnover, and industry affiliation of employees can be more accurately obtained from employers' records than from inquiries directed to a worker or a member of his household. Workers appearing on more than one payroll for the same time period are counted more than once in establishment statistics.

The Census of Population provides detailed data for the United States and for each State, city, and other area. It includes personal characteristics (sex, age, race, etc.) of the numbers employed and unemployed, the numbers reported in each occupation and industry, and other items. The labor force survey provides current data published in *Employment and Earnings* and in related publications series of the Bureau of Labor Statistics. Data presented include national totals, by sex and age, of the number of persons in the civilian labor force, the number employed in nonagricultural industries and in agriculture, the number unemployed, and the number of nonworkers. Also provided are data on hours of work and major occupation groups of those employed and duration of unemployment of those unemployed.

In addition, the Bureau of Labor Statistics, in *Employment and Earnings*, provides detailed monthly data on employment, unemployment, labor turnover, earnings, and hours. These data are shown for broad groupings in the *Monthly Labor Review*, which also presents statistics on wage rates, industrial relations, and output per man-hour. Certain of these data are shown for States and large cities. Historical statistics are shown in the Bureau of Labor Statistics Bulletin No. 1312-1, *Employment and Earnings Statistics for the United States, 1909-62*, and in No. 1370, *Employment and Earnings Statistics for States and Areas, 1939-62*.

Labor force.—The labor force data published by the Bureau of Labor Statistics and by the Bureau of the Census include persons 14 years old and over who were employed, unemployed, or in the Armed Forces during a specified week. Employed persons include those who did any work for pay or profit during the week, worked without pay for 15 hours or more in a family enterprise (farm or business), or did not work or look for work but had a job or business from which they were temporarily absent during the week. Unemployed persons comprise those who did not work at all during the week but were looking for work or were on layoff from a job.

In the 1960 Census, the labor force data relate to the first or second week of April for the majority of the population. "Experienced civilian labor force" refers to all employed workers and unemployed workers with previous work experience.

Employment and earnings.—The monthly estimates of nonagricultural employment prepared by the Bureau of Labor Statistics are based on voluntary reports from establishments which employed 11 million manufacturing workers in March 1962 (65 percent of total manufacturing employment at that time) and 8 million workers in nonmanufacturing industries except Government (27 percent of the total in non-manufacturing industries). These reports are supplemented by data from other Government agencies and adjusted at intervals to data from tabulations of reports under Government social insurance programs. The monthly estimates exclude persons not normally on establishment payrolls, such as proprietors of unincorporated businesses, self-employed persons, domestic servants, unpaid family workers, agricultural workers, and persons in the Armed Forces. The employment data are for all employees, whether full- or part-time, who received pay for any part of the period reported.

Estimates are available on a continuous basis from 1919 for total nonfarm payroll employment and the 8 major industry divisions. Estimates for other periods are available for several hundred selected industries. Both total employment and production-worker estimates are published for 21 major manufacturing groups, 240 manufacturing subgroups, and 10 mining industries. Also, estimates for nonsupervisory workers are published for individual wholesale trade, retail trade, public utility, and some finance and service industries; estimates for construction workers are published for the contract construction industries; and 335 series are published for the employment of women.

Average weekly hours and average weekly and hourly earnings are available for production and related workers for over 320 series in manufacturing; in mining, laundries, and cleaning and dyeing industries; and for nonsupervisory employees and working supervisors in other selected nonmanufacturing industries. The earnings data are gross (before payroll deductions) and include overtime premiums; they exclude irregular bonuses and value of payments in kind. Hours are those for which pay was received.

Agricultural employment estimates and wage rates, obtained by means of monthly mail returns, have been issued since 1909 by the Department of Agriculture and appear monthly in *Farm Labor*.

Output per man-hour.—The Bureau of Labor Statistics prepares and publishes annual measures of output per man-hour according to two broad concepts. The first, physical output per man-hour, deals with the relationship between production in physical units and man-hours used in production; the second, net output per man-hour, with the relationship between value added (at fixed prices) and man-hours. Both indexes measure the relationship between production and one factor of input—labor time. They do not measure the specific contribution of labor or capital nor do they measure increased efficiency resulting from technological changes or changes in production procedures.

The indexes of output per man-hour for selected industries are based on the physical output per man-hour concept; measurements relating to the total economy and various sectors are based on the net output per man-hour concept. These indexes are influenced by the divergent movements of various industries which make up the total, as well as by changes in the relative importance of these components.

Labor turnover.—Labor turnover rates are published monthly in the *Monthly Labor Review* and in *Employment and Earnings* for over 220 industries on the basis of reports from cooperating establishments employing almost 9 million workers (about 51 percent of the universe surveyed). Labor turnover data are available on a monthly

basis from January 1930 for manufacturing as a whole. Labor turnover rates for individual industries and industry groups are available on a continuous basis only from January 1958.

Work stoppages.—The basic measures of strike statistics compiled by the Bureau of Labor Statistics are the number of stoppages, of workers involved, and of man-days of idleness. Basic statistical data are obtained from the employers and unions involved. Knowledge of strikes comes from a variety of sources, including newspapers, State employment services, and State and Federal mediation services. The Bureau prepares annual reports published in the *Monthly Labor Review* and, later, in bulletin form, giving total figures for each month of the year and analyses of strikes by industry, State, city, causes, and other pertinent classifications.

Alaska and Hawaii.—Statements specifying inclusion or exclusion of figures for Alaska and Hawaii appear in the headnotes to each table unless the inclusion or exclusion is self-evident.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1957*. See preface.

Technical Note—Current Population Survey

Source of data.—The Current Population Survey is a monthly sample survey conducted by the Bureau of the Census. Monthly data on the labor force are collected and compiled for the Bureau of Labor Statistics as a part of the Current Population Survey. The current sample design is spread over 357 areas comprising 701 counties and independent cities, with coverage in each of the 50 States and the District of Columbia. Approximately 35,000 households are interviewed each month. Another 1,500 occupied dwelling units, on the average, are visited but interviews are not obtained because the occupants are not found at home after repeated calls or are unavailable for some other reason. There are also about 5,500 sample units in an average month which are visited but are found to be vacant or otherwise not to be enumerated. Data on the Armed Forces are obtained from the Department of Defense.

Reliability of the estimates.—According to current computations, the relative sampling error for summary estimates such as civilian labor force, total employment, and nonagricultural employment is about 0.4 percent; for agricultural employment and for unemployment, it is roughly 3 to 4 percent. The chances are about 2 out of 3 that an estimate from the sample would differ from a complete census by less than the percentage estimated above for the particular item. The chances are about 19 out of 20 that the difference would be less than twice the specified percentage and about 99 out of 100 that it would be less than 2½ times the percentage.

The sampling variability indicated above is illustrative of the variability of data based on the Current Population Survey. For further details on the sampling variability, see the original releases of the Bureau of the Census and explanatory notes in the Bureau of Labor Statistics *Employment and Earnings*.

Comparability with Decennial Population Census data.—Statistics obtained from the Current Population Survey may differ from Decennial Census data because of sampling variability, as described above. In addition, comparability between the two sets of data may be affected by other factors, such as differences in the training and experience of enumerators and in the enumeration procedures. For further information, see *U.S. Census of Population: 1960*, Vol. I.

Labor Force, Employment, and Earnings

No. 289. EMPLOYMENT STATUS OF THE NONINSTITUTIONAL POPULATION, BY SEX AND COLOR: 1940 TO 1964

[In thousands of persons 14 years old and over, except percent. Beginning 1960, includes Alaska and Hawaii. Annual figures are averages of monthly figures. Data for 1947-1956 adjusted to reflect changes in definition of employment and unemployment adopted in January 1957. Beginning 1955, labor force and employment figures not strictly comparable with previous years as a result of introduction into estimating procedure of 1950 Census data through March 1962 and of 1960 Census data thereafter. See *Historical Statistics, Colonial Times to 1957*, series D 1-14 and D 20, for similar but not exactly comparable data.]

YEAR OR MONTH	Total noninstitutional population	LABOR FORCE					NOT IN LABOR FORCE			
		Total, including Armed Forces	Civilian labor force			Total	Keeping house	In school	Other	
			Total	Employed	Unemployed					
TOTAL										
1940	100,380	56,180	55,640	47,520	9,540	37,980	8,120	14.6	44,200	-----
1945	105,580	65,300	53,860	52,820	8,580	44,240	1,040	1.9	40,230	27,760
1950	110,929	64,749	63,098	59,748	7,497	52,251	3,351	5.3	46,181	33,058
1955	117,388	68,896	65,848	62,944	6,718	56,225	2,904	4.4	48,492	33,722
1958	121,950	71,284	68,647	63,966	5,844	58,122	4,681	6.8	50,666	34,233
1959	123,360	71,946	69,394	65,581	5,836	59,745	3,818	5.5	51,420	34,487
1960	125,368	73,126	70,612	66,681	5,723	60,958	3,931	5.6	52,242	34,543
1961	127,852	74,175	71,603	68,796	5,463	61,333	4,806	6.7	53,677	34,897
1962	130,081	74,681	71,854	67,846	5,190	62,657	4,007	5.6	55,400	35,343
1963	132,124	75,712	72,975	68,809	4,946	63,863	4,166	5.7	56,412	35,322
Mar.	131,589	74,382	71,650	67,148	4,337	62,812	4,501	6.3	57,208	35,141
1964, Mar.	133,519	75,553	72,810	68,517	4,017	64,500	4,293	5.9	57,965	35,011
MALE										
1940	50,080	42,020	41,480	35,550	8,450	27,100	5,930	14.3	8,060	-----
1950	54,526	46,069	44,442	42,162	6,271	35,891	2,280	5.1	8,457	81
1955	57,484	48,054	45,041	43,152	5,479	37,873	1,889	4.2	9,430	76
1958	59,478	48,802	46,197	43,042	4,802	38,240	3,155	6.8	10,677	102
1959	60,100	49,081	46,562	44,089	4,749	39,340	2,473	5.3	11,019	83
1960	61,000	49,507	47,025	44,485	4,678	39,807	2,541	5.4	11,493	87
1961	62,147	49,918	47,378	44,318	4,508	39,811	3,060	6.5	12,229	106
1962	63,234	50,175	47,380	44,892	4,266	40,626	2,488	5.3	13,059	111
1963	64,163	50,573	47,867	45,330	4,021	41,309	2,537	5.3	13,590	136
Mar.	63,926	49,675	46,975	43,902	3,711	40,261	3,013	6.4	14,251	116
1964, Mar.	64,781	50,123	47,411	44,730	3,432	41,299	2,681	5.7	14,058	131
Nonwhite:										
1955	15,326	n.a.	4,358	4,001	710	3,290	357	8.2	968	n.a.
1958	15,611	n.a.	4,511	3,891	624	3,267	619	13.7	1,100	n.a.
1959	15,713	n.a.	4,568	4,041	635	3,405	527	11.5	1,145	n.a.
1960	15,952	n.a.	4,728	4,220	657	3,563	508	10.7	1,223	n.a.
1961	16,080	n.a.	4,743	4,133	636	3,497	610	12.9	1,336	n.a.
1962	16,206	n.a.	4,739	4,220	608	3,611	519	11.0	1,408	n.a.
1963	16,335	n.a.	4,802	4,293	527	3,766	509	10.6	1,533	n.a.
Mar.	16,320	n.a.	4,706	4,117	459	3,659	589	12.5	1,614	12
1964,	16,405	n.a.	4,760	4,290	422	3,868	470	9.9	1,645	802
1964, Mar.	16,405	n.a.	4,760	4,290	422	3,868	470	9.9	1,645	11
FEMALE										
1940	50,300	14,160	14,160	11,970	1,090	10,880	2,190	15.5	36,140	-----
1950	56,404	18,680	18,657	17,584	1,226	16,358	1,073	5.8	37,724	32,977
1955	59,904	20,842	20,806	19,790	1,239	18,551	1,016	4.9	39,062	33,646
1958	62,472	22,482	22,451	20,924	1,042	19,882	1,526	6.8	30,990	34,131
1959	63,265	22,865	22,832	21,492	1,087	20,405	1,340	5.9	40,401	34,404
1960	64,368	23,619	23,587	22,196	1,045	21,151	1,390	5.9	40,749	34,456
1961	65,705	24,257	24,225	22,478	955	21,523	1,747	7.2	41,448	34,791
1962	66,848	24,507	24,474	22,054	924	22,031	1,519	6.2	42,341	35,232
1963	67,962	25,141	25,109	23,479	925	22,554	1,629	6.5	42,822	35,185
Mar.	67,663	24,707	24,675	23,186	625	22,580	1,489	6.0	42,957	35,024
1964, Mar.	68,738	25,430	25,399	23,786	585	23,201	1,613	6.3	43,308	34,880
1964, Mar.	68,738	n.a.	3,204	2,845	54	2,790	359	11.2	4,182	3,061
Nonwhite:										
1955	16,069	n.a.	2,697	2,495	310	2,185	202	7.5	3,372	n.a.
1958	16,374	n.a.	2,943	2,623	252	2,371	318	10.8	3,431	n.a.
1959	16,478	n.a.	2,970	2,689	273	2,416	281	9.5	3,508	n.a.
1960	16,726	n.a.	3,116	2,821	277	2,544	295	9.5	3,610	n.a.
1961	16,891	n.a.	3,180	2,803	227	2,576	377	11.9	3,710	n.a.
1962	17,094	n.a.	3,237	2,878	221	2,657	360	11.1	3,857	n.a.
1963	17,271	n.a.	3,318	2,941	221	2,720	376	11.3	3,964	n.a.
Mar.	17,226	n.a.	3,141	2,788	69	2,719	352	11.2	4,086	3,013
1964, Mar.	17,336	n.a.	3,204	2,845	54	2,790	359	11.2	4,182	3,061

n.a. Not available.

1 Civilian noninstitutional population.

Source: Dept. of Labor, Bureau of Labor Statistics; *Employment and Earnings*.

Labor Force—Projections

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No. 290. LABOR FORCE, BY AGE AND SEX: 1945 TO 1964

[In thousands of persons 14 years old and over. Beginning 1960, includes Alaska and Hawaii. Includes Armed Forces abroad. See headnote, table 289. See also *Historical Statistics, Colonial Times to 1957*, series D 13-25]

YEAR OR MONTH	MALE					FEMALE						
	Total	14 to 19 years	20 to 24 years	25 to 44 years	45 to 64 years	65 and over	Total	14 to 19 years	20 to 24 years	25 to 44 years	45 to 64 years	65 and over
1945-----	46,020	4,530	5,760	10,900	13,370	2,460	19,280	2,720	3,300	8,350	4,420	490
1950-----	46,069	3,444	5,224	20,096	13,952	2,453	18,680	1,982	2,681	8,267	5,167	584
1955-----	48,054	3,378	4,851	22,297	15,002	2,526	20,842	1,987	2,458	9,069	6,546	780
1960-----	49,507	3,821	5,089	22,270	16,039	2,287	23,619	2,409	2,590	9,447	8,266	907
1962-----	50,175	4,032	5,272	22,262	16,368	2,241	24,507	2,613	2,814	9,590	8,581	911
1963-----	50,573	4,142	5,471	22,224	16,602	2,185	25,141	2,643	2,970	9,785	8,837	905
March-----	49,678	3,449	5,299	22,230	16,553	2,143	24,707	2,269	2,907	9,784	8,857	889
1964, March	50,123	3,685	5,434	22,162	16,736	2,104	25,430	2,333	3,187	9,795	9,116	999

Source: 1945-June 1959, Dept. of Commerce, Bureau of the Census; *Current Population Reports*, Series P-50 and P-57. Beginning July 1959, Dept. of Labor, Bureau of Labor Statistics; *Employment and Earnings*.

No. 291. LABOR FORCE—TOTAL AND PARTICIPATION RATES, BY AGE AND SEX: 1960 AND PROJECTIONS, 1965 TO 1975

[Persons 14 years old and over. Includes Alaska and Hawaii. Annual averages. Rate represents the proportion of each age group in the labor force (employed, unemployed, or in the Armed Forces). Projections based on trends in average annual labor force participation rates between 1947 and 1961.]

AGE AND SEX	TOTAL LABOR FORCE (1,000)				PARTICIPATION RATES (percent)			
	1960 ¹	1965	1970	1975	1960 ¹	1965	1970	1975
Total -----	73,081	78,936	85,703	93,031	57.4	57.1	57.0	57.0
Male, 14 years and over -----	49,563	52,455	56,295	60,916	79.7	77.9	77.1	76.9
14 to 19 years-----	3,792	4,757	5,170	5,574	46.3	45.6	44.5	44.6
14 to 17 years-----	1,952	2,384	2,576	2,694	34.4	33.5	32.4	32.1
18 and 19 years-----	1,840	2,373	2,594	2,880	73.1	71.7	70.7	70.0
20 to 24 years-----	4,939	5,918	7,424	8,208	88.9	86.9	86.1	85.7
25 to 34 years-----	10,940	10,642	11,990	14,916	96.4	96.2	96.2	96.2
35 to 44 years-----	11,454	11,634	11,013	10,755	96.4	96.7	96.7	96.7
45 to 54 years-----	9,568	10,241	10,825	10,990	94.3	94.8	94.8	94.8
55 to 64 years-----	6,445	6,997	7,589	8,093	85.2	85.4	85.2	84.8
65 years and over-----	2,425	2,266	2,284	2,380	32.2	28.2	26.4	25.4
Female, 14 years and over -----	23,518	26,481	29,408	32,115	36.1	37.3	38.0	38.2
14 to 19 years-----	2,408	3,026	3,328	3,634	30.1	29.9	29.5	30.0
14 to 17 years-----	1,148	1,417	1,558	1,646	20.8	20.5	20.2	20.2
18 and 19 years-----	1,260	1,609	1,770	1,988	51.0	50.0	49.8	49.7
20 to 24 years-----	2,558	3,130	3,939	4,371	46.1	46.5	46.5	46.5
25 to 34 years-----	4,159	4,146	4,719	5,890	35.8	36.8	37.5	38.0
35 to 44 years-----	5,325	5,685	5,513	5,462	43.1	45.5	47.0	47.9
45 to 54 years-----	5,150	5,898	6,606	6,881	49.3	52.1	54.5	56.0
55 to 64 years-----	2,964	3,526	4,108	4,546	36.7	39.8	41.9	42.5
65 years and over-----	954	1,070	1,195	1,331	10.5	10.5	10.5	10.5

¹ Based on revised estimates; differ from figures in tables 289 and 290.

Source: Dept. of Labor, Bureau of Labor Statistics; *Interim Revised Projections of U.S. Labor Force, 1965-75, Special Labor Force Report*, No. 24.

No. 292. EXPERIENCED CIVILIAN LABOR FORCE, BY SEX AND AGRICULTURAL AND NONAGRICULTURAL OCCUPATIONS: 1940 to 1960

[In thousands of persons 14 years old and over, except percent. Includes Alaska and Hawaii. Experienced civilian labor force refers to all employed workers and to unemployed workers with previous work experience]

YEAR	Population	EXPERIENCED CIVILIAN LABOR FORCE						
		Total	Male	Female	Agricultural ¹		Nonagricultural ^{1,2}	
					Number	Percent	Number	Percent
1940-----	101,458	51,934	39,319	12,615	8,894	17.1	43,040	82.9
1950-----	112,801	59,230	42,722	16,507	6,858	11.6	52,372	88.4
1960-----	126,277	67,990	45,686	22,304	4,085	6.0	63,905	94.0

¹ Data not adjusted for relatively minor differences in agricultural and nonagricultural occupations.

² Includes persons in experienced civilian labor force who did not report occupation.

Source: Dept. of Commerce, Bureau of the Census; *1940 Census of Population*, Vol. II; *U.S. Census of Population: 1950*, Vol. II, 1960, Vol. I, and unpublished data.

Labor Force, Employment, and Earnings

No. 293. UNEMPLOYED AND PART-TIME EMPLOYED—SUMMARY: 1958 TO 1964

[In thousands, except as indicated; covers persons 14 years old and over. Beginning 1960, includes Alaska and Hawaii. Through March 1962, 1950 Census population data used in estimation; thereafter, 1960 Census]

SUBJECT	1958	1959	1960	1961	1962	1963		1964, March
						Total	March	
UNEMPLOYED								
Total	4,681	3,813	3,931	4,806	4,007	4,166	4,501	4,293
On temporary layoff (less than 30 days)	166	128	147	149	121	116	105	90
Waiting to begin new job (within 30 days)	120	134	119	129	125	138	109	108
Color:								
White	3,743	3,004	3,127	3,819	3,129	3,281	3,561	3,464
Nonwhite	938	808	804	988	879	885	941	830
Age and sex:								
14 to 19 years	757	727	792	921	816	970	803	824
Percent of total unemployed	16.2	19.1	20.1	19.2	20.4	23.5	17.8	19.2
Male	473	451	480	542	472	565	512	533
Female	284	276	310	379	344	414	291	291
20 to 24 years	701	543	583	724	636	658	701	727
Percent of total unemployed	15.0	14.2	14.8	15.1	15.9	15.8	15.6	16.9
Male	478	343	369	457	381	396	475	422
Female	223	200	214	265	255	262	226	305
25 to 44 years	1,864	1,398	1,424	1,738	1,401	1,403	1,679	1,462
Percent of total unemployed	39.8	36.7	36.2	36.2	35.0	33.7	37.3	34.1
Male	1,237	890	907	1,092	851	830	1,067	868
Female	627	508	516	646	580	573	612	594
45 to 64 years	1,202	1,009	1,009	1,266	1,015	998	1,164	1,142
Percent of total unemployed	25.7	26.5	25.7	26.3	25.3	24.0	25.9	26.6
Male	841	677	686	847	681	647	825	742
Female	361	333	323	419	334	351	339	400
65 years and over	155	135	121	158	140	126	153	138
Percent of total unemployed	3.3	3.5	3.1	3.3	3.5	3.0	3.4	3.2
Male	124	112	96	122	103	97	132	116
Female	31	23	25	36	37	29	21	22
Unemployment rate (percent):¹								
All workers	6.8	5.5	5.6	6.7	5.6	5.7	6.3	5.9
White	6.1	4.9	5.0	6.0	4.9	5.1	5.6	5.3
Male	6.1	4.6	4.8	5.7	4.6	4.7	5.7	5.2
Female	6.2	5.3	5.3	6.5	5.5	5.8	5.3	5.6
Nonwhite	12.6	10.7	10.2	12.5	11.0	10.9	12.0	10.4
Male	13.7	11.5	10.7	12.9	11.0	10.6	12.5	9.9
Female	10.8	9.5	9.5	11.9	11.1	11.3	11.2	11.2
Experienced wage and salary workers	7.2	5.6	5.7	6.8	5.5	5.5	6.4	5.9
Married men, wife present	5.1	3.6	3.7	4.6	3.6	3.4	4.4	3.6
Percent without work for—								
4 weeks or less	39.2	43.5	45.8	39.5	43.8	44.3	34.5	37.7
5 to 10 weeks	20.5	20.4	20.9	20.1	20.2	21.1	21.4	18.8
11 to 14 weeks	9.4	8.8	9.0	8.6	8.1	8.5	13.3	12.7
15 to 26 weeks	16.8	12.3	12.8	15.2	13.3	12.8	15.5	17.3
Over 26 weeks	14.2	15.0	11.5	16.7	14.6	13.3	15.4	13.5
Average duration of unemployment weeks	13.8	14.5	12.8	15.5	14.7	14.0	16.0	15.0
PART-TIME EMPLOYED²								
Total	3,280	2,640	2,860	3,142	2,661	2,620	2,491	2,330
Agriculture	327	304	300	329	325	332	209	249
Nonagricultural industries	2,953	2,336	2,560	2,813	2,336	2,288	2,192	2,081

¹ Percent of civilian labor force in specified group.

² Persons who worked less than 35 hours during survey week for economic reasons, such as slack work, material shortages or repairs, new job started, job terminated, or only part-time work found. Excludes persons with a job but not at work because of vacation, illness, bad weather, or industrial dispute.

Source: Dept. of Labor, Bureau of Labor Statistics; *Employment and Earnings*, and unpublished data.

No. 294. PERSONS WITH A JOB BUT NOT AT WORK: 1958 TO 1964

[In thousands of persons 14 years old and over. Beginning 1960, includes Alaska and Hawaii. See headnote, table 280]

YEAR OR MONTH	All indus- tries	Agri- culture	Nonag- ricultural indus- ties	REASON FOR NOT WORKING, ALL INDUSTRIES				
				Bad weather	Indus- trial dispute	Vaca- tion	Illness	All others
1958	3,076	199	2,877	182	59	1,479	882	474
1959	3,161	286	2,974	115	160	1,494	907	484
1960	3,231	190	3,042	168	40	1,576	942	505
1961	3,146	200	2,946	143	56	1,492	898	556
1962	3,281	178	3,103	160	33	1,533	940	615
1963	3,501	174	3,277	106	41	1,655	1,000	698
March	2,677	241	2,436	188	41	380	1,403	665
1964, March	2,249	211	2,038	159	35	332	1,091	583

Source: Dept. of Labor, Bureau of Labor Statistics; *Employment and Earnings*, and unpublished data.

Work Experience—Multiple Jobholders

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No. 295. CIVILIAN NONINSTITUTIONAL POPULATION—WORK EXPERIENCE DURING YEAR: 1955, 1960, AND 1962

[In thousands of persons 14 years old and over, except percent. Beginning 1960, includes Alaska and Hawaii. Population figures as of January or February of following year]

WORK EXPERIENCE DURING YEAR	1955		1960		1962	
	Number	Percent	Number	Percent	Number	Percent
Total civilian noninstitutional population.....	115,164		124,384		128,690	
Total who worked during year.....	75,353	100.0	80,618	100.0	82,057	100.0
Worked at full-time jobs 50 to 52 weeks.....	42,624	56.6	43,265	53.7	44,079	53.7
Worked at full-time jobs 27 to 40 weeks.....	11,952	15.9	12,132	15.0	12,102	14.7
27 to 39 weeks.....	4,680	6.2	4,943	6.1	5,149	6.3
40 to 47 weeks.....	4,723	6.3	4,740	5.9	4,677	5.7
48 to 49 weeks.....	2,549	3.4	2,449	3.0	2,276	2.8
Worked part-time or intermittently.....	20,777	27.5	25,221	31.3	25,876	31.5
Worked at full-time jobs 13 weeks or less.....	4,060	5.4	4,207	5.3	4,563	5.6
Worked at full-time jobs 14 to 26 weeks.....	3,945	5.2	4,459	5.5	4,583	5.6
Worked at part-time jobs.....	12,772	16.9	16,465	20.4	16,730	20.4
Male civilian noninstitutional population.....	54,876		59,208		61,154	

Source: 1955, Dept. of Commerce, Bureau of the Census; *Current Population Reports*, Series P-50, No. 68. Thereafter, Dept. of Labor, Bureau of Labor Statistics; *Special Labor Force Report*, Nos. 13 and 38.

No. 296. PERSONS WITH TWO OR MORE JOBS, BY TYPE OF INDUSTRY AND CLASS OF WORKER OF PRIMARY AND SECONDARY JOBS: 1962 AND 1963

[In thousands of persons 14 years old and over, except percent. Includes Alaska and Hawaii. As of May]

INDUSTRY AND CLASS OF WORKER OF PRIMARY JOB	PERSONS WITH TWO OR MORE JOBS		INDUSTRY AND CLASS OF WORKER OF SECONDARY JOB					
	Total	Rate of multiple job-holding ¹	Agriculture			Nonagricultural industries		
			Total	Wage and salary workers	Self-employed workers	Total	Wage and salary workers	Self-employed workers
1962								
Total.....	3,342	4.9	645	176	469	2,697	2,176	521
Agriculture.....	364	6.7	141	109	32	223	218	5
Wage and salary workers.....	102	6.2	76	44	32	26	21	5
Self-employed workers.....	210	7.5	39	39	(2)	171	171	
Unpaid family workers.....	52	5.2	26	26	(3)	26	26	(3)
Nonagricultural industries.....	2,978	4.7	504	67	437	2,474	1,958	516
Wage and salary workers.....	2,764	5.0	499	62	437	2,265	1,749	516
Self-employed workers.....	194	3.0	3	3	(2)	191	191	(2)
Unpaid family workers.....	20	2.9	2	2	(3)	18	18	(3)
1963								
Total.....	3,921	5.7	825	188	637	3,096	2,481	615
Agriculture.....	386	7.5	140	98	42	246	241	5
Wage and salary workers.....	146	8.8	91	49	42	55	50	5
Self-employed workers.....	195	7.5	36	36	(2)	159	159	(2)
Unpaid family workers.....	45	4.8	13	13	(3)	32	32	(3)
Nonagricultural industries.....	3,535	5.5	685	90	595	2,850	2,240	610
Wage and salary workers.....	3,361	5.9	678	83	595	2,683	2,078	610
Self-employed workers.....	189	2.7	7	7	(2)	162	162	(2)
Unpaid family workers.....	5	0.9			(3)	5	5	(3)

¹ Persons with 2 or more jobs as a percent of all employed persons in industry—class-of-worker group.

² Self-employed persons with a secondary farm or business, but no wage or salary job, were not counted as multiple jobholders.

³ Persons whose primary jobs were as unpaid family workers were counted as multiple jobholders only if they also held a wage or salary job.

Source: Dept. of Labor, Bureau of Labor Statistics; *Special Labor Force Report*, Nos. 29 and 39.

Labor Force, Employment, and Earnings

No. 297. CIVILIANS EMPLOYED IN AGRICULTURE AND IN NONAGRICULTURAL INDUSTRIES, BY HOURS WORKED: 1950 TO 1964

[In thousands of persons 14 years old and over. During the survey week in May. Beginning 1960, includes Alaska and Hawaii]

YEAR	EMPLOYED IN AGRICULTURE					EMPLOYED IN NONAGRICULTURAL INDUSTRIES				
	Total	Worked 35 hours or more	Worked 15 to 34 hours	Worked 1 to 14 hours	With a job but not at work ¹	Total	Worked 35 hours or more	Worked 15 to 34 hours	Worked 1 to 14 hours	With a job but not at work ¹
1950-----	8,036	5,070	1,613	292	161	51,445	48,033	5,149	1,949	1,314
1951-----	7,438	5,799	1,335	215	89	53,553	45,055	4,931	2,071	1,496
1952-----	6,956	5,416	1,308	120	112	53,982	45,284	4,946	1,934	1,818
1953-----	6,410	4,409	1,540	231	230	55,305	46,253	5,627	1,939	1,486
1954-----	6,813	4,955	1,435	285	138	53,926	43,959	6,214	2,133	1,620
1955-----	6,945	5,170	1,372	263	134	55,536	45,832	5,618	2,440	1,646
1956-----	7,117	5,185	1,475	360	97	57,829	46,587	6,557	2,980	1,705
1957-----	6,659	4,615	1,524	351	170	58,519	47,116	6,576	2,942	1,886
1958-----	6,272	4,452	1,370	348	103	57,789	45,619	7,147	3,224	1,799
1959-----	6,408	4,491	1,455	348	117	59,608	47,935	6,431	3,349	1,891
1960-----	5,837	4,129	1,254	366	89	61,371	48,594	7,203	3,578	1,997
1961-----	5,544	3,700	1,341	393	111	61,234	47,927	7,533	3,858	1,916
1962-----	5,428	3,801	1,149	388	89	62,775	49,711	7,209	3,912	1,944
1963-----	5,178	3,489	1,106	415	80	63,888	50,383	7,261	4,144	2,093
1964-----	5,007	3,448	1,089	378	92	66,094	51,505	7,817	4,466	2,304

¹ Persons who had a job or business, but who did not work at all during entire survey week because of illness, bad weather, vacation, industrial dispute, or various personal reasons.

Source: Dept. of Labor, Bureau of Labor Statistics; *Employment and Earnings*, and unpublished data.

No. 298. EMPLOYEES IN NONAGRICULTURAL ESTABLISHMENTS—ANNUAL AVERAGES, BY INDUSTRY: 1940 TO 1964

[In thousands. Beginning 1950, includes Alaska and Hawaii. Includes all full- and part-time employees who worked during, or received pay for, any part of the pay period reported. Excludes proprietors, self-employed persons, farm workers, unpaid family workers, domestic servants, and personnel of Armed Forces. Data are adjusted to March 1962 benchmark levels indicated by data from Government social insurance programs. See also *Historical Statistics, Colonial Times to 1957*, series D 48-50]

YEAR OR MONTH	Total	Mining	Contract construction	Manufacturing	Transportation and public utilities	Wholesale and retail trade	Finance, insurance, and real estate	Service and miscellaneous	Govern- ment
1940-----	32,376	925	1,204	10,985	3,038	6,750	1,502	3,681	4,202
1945-----	40,394	836	1,132	15,524	3,906	7,314	1,497	4,241	5,944
1950-----	45,222	901	2,333	15,241	4,034	9,886	1,919	5,382	6,026
1951-----	47,849	929	2,003	16,393	4,226	9,742	1,991	5,576	6,389
1952-----	48,825	898	2,034	16,632	4,248	10,004	2,089	5,730	6,609
1953-----	50,232	866	2,623	17,549	4,200	10,247	2,146	5,867	6,645
1954-----	49,022	791	2,612	16,314	4,084	10,235	2,234	6,002	6,751
1955-----	50,675	792	2,802	16,882	4,141	10,535	2,335	6,274	6,914
1956-----	52,408	822	2,999	17,243	4,244	10,888	2,429	6,556	7,277
1957-----	52,904	828	2,928	17,174	4,241	10,886	2,477	6,749	7,626
1958-----	51,423	751	2,778	15,945	3,976	10,780	2,519	6,811	7,893
1959-----	53,404	732	2,960	16,675	4,011	11,127	2,594	7,115	8,190
1960-----	54,370	712	2,885	16,796	4,004	11,391	2,669	7,392	8,520
1961-----	54,224	672	2,816	16,327	3,903	11,337	2,731	7,610	8,828
1962-----	55,841	652	2,909	16,859	3,908	11,582	2,798	7,949	9,188
1963-----	57,174	634	3,029	17,035	3,913	11,865	2,866	8,297	9,535
March-----	55,714	616	2,556	16,756	3,847	11,497	2,825	8,076	9,541
1964, March (prel.)-----	57,375	610	2,756	17,054	3,885	11,921	2,895	8,414	9,840

Source: Dept. of Labor, Bureau of Labor Statistics; *Employment and Earnings*.

Nonagricultural Employment, by Industry

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No. 299. EMPLOYEES IN NONAGRICULTURAL ESTABLISHMENTS—TOTAL AND PRODUCTION WORKERS, ANNUAL AVERAGES, BY INDUSTRY: 1950, 1960, AND 1963

[In thousands. Beginning 1960, includes Alaska and Hawaii. See headnote, table 298.]

INDUSTRY	TOTAL EMPLOYEES			PRODUCTION WORKERS ¹		
	1950	1960	1963	1950	1960	1963
	45,222	54,370	57,174	n.a.	n.a.	n.a.
Total	45,222	54,370	57,174			
Mining						
Metal mining	901	712	634	816	570	497
Metal mining	97	94	82	87	77	68
Coal mining	n.a.	186	139	n.a.	165	122
Crude petroleum and natural-gas production	266	309	293	227	226	208
Quarrying and nonmetallic mining	95	123	120	83	103	99
Contract construction	2,333	2,885	3,029	2,069	2,459	2,578
General building contractors	875	908	920	791	785	790
Heavy construction	419	586	604	370	512	527
Special trade contractors	1,039	1,391	1,505	908	1,162	1,261
Manufacturing	15,241	16,796	17,035	12,523	12,586	12,585
Durable goods	8,094	9,459	9,659	6,705	7,028	7,059
Ordnance and accessories	30	202	277	23	95	119
Lumber and wood products (excluding furniture) ²	808	627	586	745	561	524
Logging camps and contractors	92	91	82	85	88	76
Sawmills and planing mills	451	288	253	424	262	231
Millwork, plywood, and related products	137	147	153	120	124	130
Wooden containers	65	42	35	60	38	32
Furniture and fixtures ²	364	383	390	317	319	324
Household furniture	271	272	283	241	233	242
Office furniture	n.a.	28	27	n.a.	22	22
Partitions; office and store fixtures	n.a.	40	39	n.a.	30	29
Stone, clay, and glass products ²	547	604	608	473	492	490
Flat glass	n.a.	33	31	n.a.	29	25
Glass and glassware, pressed or blown	n.a.	107	113	n.a.	90	98
Cement, hydraulic	40	43	40	34	35	32
Structural clay products	78	76	68	71	68	58
Pottery and related products	60	47	44	55	40	37
Concrete, gypsum, and plaster products	n.a.	160	172	n.a.	127	135
Primary metal industries ²	1,247	1,231	1,166	1,075	994	942
Blast furnace and basic steel products	674	581	587	528	476	
Iron and steel foundries	224	205	198	196	173	168
Nonferrous smelting and refining	n.a.	70	60	n.a.	54	53
Nonferrous rolling, drawing, and extruding	n.a.	179	183	n.a.	136	139
Nonferrous foundries	77	66	71	66	55	59
Fabricated metal products (excluding ordnance, machinery, and transportation equipment) ²	982	1,135	1,153	812	874	884
Metal cans	57	62	62	50	54	52
Cutlery, hand tools, and general hardware	158	135	136	133	108	107
Heating equipment and plumbing fixtures	n.a.	78	77	n.a.	58	58
Fabricated structural metal products	222	340	338	172	242	240
Screw machine products, bolts, etc.	n.a.	87	89	n.a.	69	70
Metal stampings	n.a.	195	197	n.a.	159	159
Coating, engraving, and allied services	n.a.	64	70	n.a.	54	58
Machinery (except electrical) ²	1,210	1,479	1,520	920	1,036	1,053
Engines and turbines	n.a.	86	88	n.a.	56	57
Farm machinery and equipment	n.a.	112	120	n.a.	78	87
Construction and related machinery	n.a.	221	214	n.a.	146	143
Metalworking machinery and equipment	204	261	270	159	196	202
Special-industry machinery (excluding metalworking machinery)	165	168	168	128	118	115
General industrial machinery	n.a.	227	231	n.a.	157	154
Office, computing, and accounting machines	n.a.	147	154	n.a.	96	91
Service-industry machines	n.a.	100	101	n.a.	70	68
Electrical equipment and supplies ²	991	1,467	1,582	770	996	1,057
Electric distribution equipment	n.a.	164	169	n.a.	109	112
Electrical industrial apparatus	n.a.	181	187	n.a.	134	128
Household appliances	n.a.	155	155	n.a.	119	119
Electric lighting and wiring equipment	n.a.	138	149	n.a.	107	116
Radio and TV receiving sets	n.a.	107	113	n.a.	79	85
Communication equipment	n.a.	382	434	n.a.	207	220
Electronic components and accessories	n.a.	234	265	n.a.	170	194

See footnotes at end of table.

No. 299. EMPLOYEES IN NONAGRICULTURAL ESTABLISHMENTS—TOTAL AND PRODUCTION WORKERS, ANNUAL AVERAGES, BY INDUSTRY: 1950, 1960, AND 1963—Con.

[In thousands]

INDUSTRY	TOTAL EMPLOYEES			PRODUCTION WORKERS ¹		
	1950	1960	1963	1950	1960	1963
Transportation equipment ²	1,265	1,587	1,614	1,029	1,115	1,113
Motor vehicles and equipment	816	724	738	677	563	572
Aircraft and parts	283	646	649	209	377	356
Ship and boat building and repairing	85	141	144	72	117	121
Railroad equipment	60	43	44	45	32	33
Instruments and related products	250	354	372	189	233	237
Engineering and scientific instruments	n.a.	76	74	n.a.	43	39
Mechanical measuring and control devices	n.a.	93	98	n.a.	62	64
Optical and ophthalmic goods	n.a.	41	42	n.a.	31	30
Surgical, medical, and dental equipment	n.a.	48	53	n.a.	33	37
Photographic equipment and supplies	53	69	76	38	41	43
Watches and clocks	33	28	30	28	22	24
Miscellaneous manufacturing industries ²	400	390	393	344	314	316
Jewelry, silverware, and plated ware	57	44	42	46	34	33
Toys, amusement, and sporting goods	78	100	104	70	84	87
Pens, pencils, office and art materials	n.a.	30	32	n.a.	23	24
Costume jewelry, buttons, and notions	64	60	57	57	49	48
Nondurable goods	7,147	7,336	7,376	5,817	5,558	5,526
Food and kindred products ²	1,700	1,700	1,738	1,331	1,212	1,155
Meat products	296	323	308	241	260	248
Dairy products	n.a.	316	296	n.a.	169	146
Canned and preserved food, except meats	235	246	242	209	210	204
Grain-mill products	n.a.	131	132	n.a.	92	92
Bakery products	291	301	292	200	173	169
Sugar	36	36	36	31	30	29
Confectionery and related products	92	78	77	76	62	61
Beverages	223	217	215	142	118	112
Tobacco manufactures ²	103	94	89	95	83	77
Cigarettes	29	38	38	26	33	32
Cigars	41	28	23	39	26	22
Textile mill products ²	1,256	924	890	1,169	835	797
Cotton broad woven fabrics	n.a.	254	234	n.a.	238	216
Silk and synthetic broad woven fabrics	n.a.	84	83	n.a.	77	75
Weaving and finishing broad woolens	n.a.	56	49	n.a.	49	43
Narrow fabrics and small wares	n.a.	28	27	n.a.	24	24
Knitting	249	215	215	230	195	193
Finishing textiles, except wool and knit	94	77	74	83	67	64
Floor covering	n.a.	38	38	n.a.	32	32
Yarn and thread	158	103	104	148	95	96
Apparel and related products ²	1,202	1,233	1,208	1,080	1,098	1,151
Men's and boys' suits and coats	140	120	116	127	107	104
Men's and boys' furnishings and work clothing	273	304	329	253	278	299
Women's, misses', and juniors' outerwear	369	371	362	334	335	350
Women's, children's undergarments	105	118	119	94	104	105
Millinery	n.a.	35	33	n.a.	31	29
Children's outerwear	62	77	80	56	68	71
Fur goods and miscellaneous apparel	n.a.	70	73	n.a.	61	63
Paper and allied products	485	601	621	416	480	488
Paper and pulp	n.a.	223	215	n.a.	180	173
Paperboard	n.a.	69	68	n.a.	56	54
Converted paper and paperboard products	n.a.	132	148	n.a.	102	111
Paperboard containers and boxes	140	177	189	121	141	151
Printing, publishing, and allied industries ²	748	911	928	494	589	590
Newspapers	280	325	320	147	168	161
Periodicals	63	70	70	32	30	28
Books	49	70	75	29	42	45
Commercial printing	n.a.	291	299	n.a.	231	234
Bookbinding and related industries	n.a.	47	50	n.a.	38	41
Chemicals and allied products ²	640	828	866	461	510	524
Industrial chemicals	n.a.	284	285	n.a.	168	164
Plastics and synthetics, except glass	n.a.	155	170	n.a.	105	114
Drugs	88	109	116	58	60	63
Soap, cleaners, and toilet goods	n.a.	91	99	n.a.	55	60
Paints, varnishes, and allied products	n.a.	63	64	n.a.	37	37
Agricultural chemicals	n.a.	46	50	n.a.	32	34
Petroleum refining and related industries	218	212	188	165	138	120
Petroleum refining	185	177	154	140	113	95
Other petroleum and coal products	n.a.	35	35	n.a.	25	24

See footnotes at end of table.

Nonagricultural Employment, by Industry

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No. 299. EMPLOYEES IN NONAGRICULTURAL ESTABLISHMENTS—TOTAL AND PRODUCTION WORKERS, ANNUAL AVERAGES, BY INDUSTRY: 1950, 1960, AND 1963—Con.

[In thousands]

INDUSTRY	TOTAL EMPLOYEES			PRODUCTION WORKERS ¹		
	1950	1960	1963	1950	1960	1963
Rubber and miscellaneous plastic products ²	811	379	409	252	293	315
Tires and inner tubes	110	105	96	87	77	69
Leather and leather products ²	305	363	350	355	321	300
Leather tanning and finishing	51	34	31	47	30	27
Footwear, except rubber	262	243	236	229	216	210
Transportation and public utilities	4,034	4,004	3,913	n.a.	n.a.	n.a.
Railroad transportation	1,391	885	774	n.a.	n.a.	n.a.
Class I railroads	1,221	781	680	n.a.	n.a.	n.a.
Local and interurban passenger transit	n.a.	284	273	n.a.	n.a.	n.a.
Motor freight transportation and storage	610	856	898	n.a.	786	816
Air transportation	n.a.	191	211	n.a.	n.a.	n.a.
Pipeline transportation	n.a.	23	20	n.a.	20	17
Other transportation	n.a.	310	296	n.a.	n.a.	n.a.
Communication	n.a.	840	829	n.a.	n.a.	n.a.
Telephone	620	706	689	n.a.	582	556
Telegraph	44	38	34	n.a.	28	24
Radio and television broadcasting	n.a.	92	102	n.a.	78	83
Electric, gas, and sanitary services	554	615	612	517	545	535
Electric companies and systems	239	253	247	225	219	210
Gas companies and systems	118	155	155	111	139	137
Combined utility systems	169	175	173	157	159	154
Water, steam, and sanitary systems	28	33	33	25	29	34
Wholesale and retail trade	9,386	11,391	11,865	7,489	8,766	8,993
Wholesale trade	2,518	3,004	3,143	2,294	2,605	2,690
Retail trade ²	6,868	8,388	8,722	5,194	6,161	6,303
General merchandise stores	1,409	1,568	1,664	n.a.	1,452	1,526
Food stores	n.a.	1,356	1,409	n.a.	1,273	1,313
Apparel and accessories stores	556	619	620	n.a.	566	562
Furniture and appliance stores	n.a.	400	393	n.a.	361	349
Eating and drinking places	n.a.	1,654	1,762	n.a.	n.a.	n.a.
Finance, insurance, and real estate	1,919	2,669	2,866	n.a.	n.a.	n.a.
Banking	435	673	738	n.a.	574	625
Credit agencies other than banks	n.a.	261	292	n.a.	n.a.	n.a.
Security dealers and exchanges	62	114	124	n.a.	107	114
Insurance carriers	n.a.	832	866	n.a.	757	777
Insurance agents, brokers, and services	n.a.	196	219	n.a.	n.a.	n.a.
Real estate	n.a.	517	551	n.a.	n.a.	n.a.
Other finance, insurance, and real estate	n.a.	76	76	n.a.	n.a.	n.a.
Service and miscellaneous ²	5,382	7,392	8,297	n.a.	n.a.	n.a.
Hotels and lodging places	481	565	642	n.a.	n.a.	n.a.
Personal services, laundries, cleaning and dyeing plants	n.a.	523	511	n.a.	391	374
Misc. business services, advertising	n.a.	109	109	n.a.	n.a.	n.a.
Motion pictures	248	190	171	n.a.	n.a.	n.a.
Medical services, hospitals	n.a.	1,131	1,301	n.a.	n.a.	n.a.
Government	6,026	8,520	9,535	n.a.	n.a.	n.a.
Federal	1,928	2,270	2,358	n.a.	n.a.	n.a.
State and local	4,098	6,250	7,177	n.a.	n.a.	n.a.

n.a. Not available.

¹ For mining, laundries, cleaning and dyeing plants, and manufacturing, data refer to production and related workers; for contract construction, to construction workers; and for all other industries, to nonsupervisory workers.

² Includes industries not shown separately.

Source: Dept. of Labor, Bureau of Labor Statistics; *Employment and Earnings*.

**No. 300. EMPLOYEES IN NONAGRICULTURAL ESTABLISHMENTS, ANNUAL AVERAGES—
TOTAL, 1960 AND 1963, AND BY INDUSTRY, 1963, BY STATES**

[In thousands. For coverage, see headnote, table 298. National totals differ from the sum of the State figures because a few States prepare combinations of industries, some States have more recent benchmark levels than others, and methods of computation may vary slightly among the States.]

STATE	TOTAL		INDUSTRY, 1963							
	1960	1963	Mining	Contract construction	Manufacturing	Transportation and public utilities	Wholesale and retail trade	Finance, insurance, and real estate	Service and miscellaneous	Government
United States	54,370	57,174	634	3,029	17,035	3,913	11,865	2,866	8,297	9,535
New England:										
Maine	278	278	(1)	13	102	17	53	10	32	51
New Hampshire	198	205	(2)	9	86	10	37	8	30	25
Vermont	107	110	1	6	35	7	21	4	19	17
Massachusetts	1,917	1,956	(1)	82	662	102	401	105	328	206
Rhode Island	292	298	(1)	12	116	15	56	13	43	43
Connecticut	917	966	(3)	45	422	45	170	57	125	102
Middle Atlantic:										
New York	6,185	6,271	9	267	1,810	466	1,276	499	1,048	806
New Jersey	2,012	2,105	4	95	804	151	405	95	291	260
Pennsylvania	3,717	3,699	48	149	1,399	260	681	158	531	473
East North Central:										
Ohio	3,147	3,149	19	137	1,230	197	614	127	392	433
Indiana	1,431	1,496	9	62	611	89	297	62	156	210
Illinois	3,518	3,586	27	151	1,201	272	760	196	522	457
Michigan	2,351	2,383	13	97	963	129	442	90	295	354
Wisconsin	1,192	1,228	2	52	460	72	251	49	160	182
West North Central:										
Minnesota	960	999	13	54	242	78	242	51	150	169
Iowa	679	697	3	34	179	49	173	34	101	124
Missouri	1,348	1,386	7	68	394	115	314	76	200	212
North Dakota	126	132	2	11	8	12	36	6	23	34
South Dakota	142	153	3	13	14	10	40	7	24	42
Nebraska	381	397	2	25	66	37	97	24	61	85
Kansas	559	578	15	35	115	52	133	25	78	125
South Atlantic:										
Delaware	154	164	(1)	12	60	11	32	6	21	22
Maryland	896	982	2	70	260	72	211	50	150	167
Dist. of Columbia	536	584	(1)	24	20	29	86	30	104	201
Virginia	1,018	1,125	16	82	297	93	231	49	150	217
West Virginia	460	448	47	19	124	41	79	13	53	72
North Carolina	1,196	1,291	3	71	540	68	236	49	140	184
South Carolina	583	627	2	35	271	26	107	23	62	101
Georgia	1,051	1,147	6	65	362	76	235	56	132	215
Florida	1,321	1,439	9	115	229	102	389	90	246	260
East South Central:										
Kentucky	654	702	30	42	183	53	145	28	95	126
Tennessee	925	999	7	53	344	55	201	44	180	159
Alabama	776	805	9	42	245	48	155	34	102	170
Mississippi	404	442	6	25	134	26	87	16	51	97
West South Central:										
Arkansas	367	416	5	27	119	29	88	16	54	78
Louisiana	790	809	44	54	144	79	184	37	111	156
Oklahoma	582	612	42	37	91	46	142	29	82	143
Texas	2,532	2,688	113	174	515	218	670	142	378	478
Mountain:										
Montana	167	174	7	13	22	18	40	7	24	43
Idaho	155	165	3	9	32	14	41	7	21	38
Wyoming	97	96	10	10	7	10	20	3	11	25
Colorado	515	561	12	35	94	44	131	29	89	127
New Mexico	236	248	17	18	17	20	52	11	42	71
Arizona	334	377	15	27	58	25	90	20	59	83
Utah	265	295	12	18	55	22	65	12	39	72
Nevada	103	142	3	16	7	11	26	6	49	24
Pacific:										
Washington	813	850	2	43	223	60	186	43	113	180
Oregon	509	545	1	28	145	43	121	24	75	108
California	4,894	5,402	30	314	1,416	366	1,158	282	881	1,005
Alaska	57	62	1	4	6	7	9	2	6	27
Hawaii	189	200	(1)	15	25	16	46	11	34	53

¹ "Mining" combined with "Service and miscellaneous." ² Less than 500.

³ "Mining" combined with "Contract construction."

⁴ Federal employment in the Maryland and Virginia sectors of the Washington, D.C., Standard Metropolitan Statistical Area is included in District of Columbia.

Nonagricultural Employment, by Industry

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No. 301. EMPLOYEES IN NONAGRICULTURAL ESTABLISHMENTS—PERCENT DISTRIBUTION, BY INDUSTRY, BY STATES: 1960 AND 1963

[For base figures, see table 300]

STATE	MINING		CONTRACT CON- STRUCTION		MANU- FACTURING		TRANSPO- RТАTION AND PUBLIC UTILITIES		WHOLE- SALE AND RETAIL TRADE		FINANCE, INSURANCE, AND REAL ESTATE		SERVICE AND MISCEL- LАНEOUS		GOVERN- MENT		
	1960	1963	1960	1963	1960	1963	1960	1963	1960	1963	1960	1963	1960	1963	1960	1963	
U.S.	1.3	1.1	5.3	5.3	30.9	29.8	7.4	6.8	20.9	20.8	4.9	5.0	13.6	14.5	15.7	16.7	
N.E.:																	
Maine	(1)	(1)	4.9	4.5	37.7	36.9	6.5	6.1	19.4	19.2	3.2	3.5	10.9	11.4	17.4	18.4	
N.H.	0.2	0.2	5.0	4.5	44.0	41.8	4.9	4.7	17.3	18.3	3.6	3.7	13.6	14.0	11.4	11.9	
Vt.	1.2	(1)	5.6	4.9	33.0	31.7	7.0	6.3	19.1	19.1	3.6	3.9	15.6	15.9	14.9	15.5	
Mass.	(1)	(1)	4.1	4.2	36.4	33.9	5.5	5.2	20.2	20.5	5.2	5.3	15.6	17.3	13.0	13.6	
R.I.	(1)	(1)	4.1	4.2	41.0	38.9	5.0	4.9	18.3	18.7	4.3	4.5	13.5	14.5	13.8	14.3	
Conn.	(2)	(2)	4.9	4.7	44.4	43.6	4.9	4.7	17.4	17.6	5.8	5.9	12.4	12.9	10.2	10.6	
M.A.:																	
N.Y.	0.1	0.1	4.3	4.3	30.5	28.0	7.8	7.4	20.2	20.3	7.8	8.0	15.8	16.7	13.5	14.3	
N.J.	0.2	0.2	4.9	4.5	40.2	38.2	7.4	7.2	18.6	19.2	4.4	4.5	12.5	13.8	11.8	12.4	
Pa.	1.6	1.3	4.2	4.0	38.7	37.8	7.5	7.0	18.7	18.4	4.1	4.3	13.5	14.4	11.7	12.8	
E.N.C.:																	
Ohio	0.7	0.6	4.6	4.3	40.1	39.1	6.6	6.3	19.7	19.5	3.8	4.0	11.8	12.5	12.7	13.7	
Ind.	0.7	0.6	4.4	4.2	41.5	40.9	6.6	5.9	19.8	19.9	4.0	4.1	9.8	10.4	13.2	14.0	
Ill.	0.8	0.7	4.7	4.2	34.4	33.5	8.1	7.6	21.1	21.2	5.3	5.5	13.7	14.6	11.9	12.7	
Mich.	0.7	0.6	4.1	4.0	41.2	40.4	6.0	5.4	19.2	18.6	3.5	3.8	11.2	12.4	14.1	14.8	
Wis.	0.3	0.2	4.7	4.3	38.6	37.5	6.3	5.8	20.5	20.4	3.8	4.0	12.1	13.0	13.7	14.8	
W.N.C.:																	
Minn.	1.9	1.3	5.8	5.5	23.9	24.2	8.7	7.8	24.7	24.2	5.0	5.1	14.4	15.0	15.6	16.9	
Iowa	0.5	0.5	5.4	4.8	26.0	25.7	7.9	7.1	25.0	24.7	4.7	4.9	13.6	14.5	16.9	17.8	
Mo.	0.6	0.5	4.7	4.9	29.1	28.4	9.1	8.3	23.2	22.7	5.3	5.5	13.7	14.4	14.3	15.3	
N. Dak.	1.5	1.3	7.8	8.5	5.2	5.9	10.1	9.1	29.6	27.6	4.4	4.7	16.5	17.2	25.9	25.7	
S. Dak.	1.7	1.6	8.0	8.3	9.2	9.4	7.2	6.6	27.2	26.2	4.0	4.3	15.2	16.0	27.5	27.6	
Nebr.	0.7	0.5	6.4	6.2	17.5	16.8	9.9	9.3	24.6	24.5	5.9	6.1	14.5	15.3	20.5	21.3	
Kans.	3.0	2.6	6.1	6.1	20.7	19.9	9.6	9.0	23.3	23.1	4.2	4.3	12.5	13.5	20.6	21.5	
S.A.:																	
Del.	(1)	(1)	6.8	7.6	38.2	36.4	7.2	6.5	19.0	19.3	4.0	3.9	12.6	12.1	12.2	13.2	
Md.	0.3	0.3	6.9	7.1	28.9	26.5	8.1	7.3	21.3	21.5	4.0	5.1	13.7	15.2	15.9	17.0	
D.C.	(1)	(1)	3.9	4.1	3.8	3.4	5.8	5.0	15.7	14.7	5.1	5.1	17.3	18.8	24.8	49.8	
Va.	1.6	1.4	6.6	7.3	27.0	26.4	8.2	7.3	21.3	20.6	4.3	4.4	12.2	13.3	18.8	19.3	
W. Va.	12.2	10.4	4.0	4.1	27.1	27.7	9.6	9.1	18.4	17.7	2.9	3.0	11.1	11.9	14.7	16.1	
N.C.	0.3	0.2	5.5	5.5	42.6	41.8	5.4	5.2	18.4	18.3	3.5	3.8	10.6	10.9	13.7	14.3	
S.C.	0.3	0.3	5.9	5.6	42.0	43.2	4.4	4.2	17.7	17.0	3.7	3.7	9.5	9.9	16.5	16.1	
Ga.	0.5	0.5	5.3	5.7	32.4	31.5	7.0	6.6	21.4	20.5	4.7	4.9	11.0	11.5	17.7	18.8	
Fla.	0.6	0.6	9.2	8.0	15.6	15.9	7.6	7.1	27.5	27.0	6.2	6.3	16.6	17.0	16.7	18.1	
E.S.C.:																	
Ky.	5.2	4.3	5.5	6.0	26.2	26.1	8.0	7.5	21.4	20.7	3.8	3.9	13.0	13.6	16.9	17.9	
Tenn.	0.8	0.7	5.1	5.3	34.0	34.4	6.0	5.5	21.0	20.1	4.3	4.4	13.0	13.6	15.8	16.0	
Ala.	1.7	1.1	5.5	5.2	30.5	30.4	6.4	6.0	19.4	19.2	4.2	4.2	11.7	12.7	20.6	21.2	
Miss.	1.7	1.5	5.6	5.7	29.7	30.2	6.3	5.9	20.9	19.7	3.8	3.5	10.9	11.6	21.6	21.9	
W.S.C.:																	
Ark.	1.5	1.2	5.5	6.5	27.8	28.6	7.7	6.9	22.1	21.2	3.7	3.8	12.6	13.0	19.1	18.8	
La.	5.6	5.4	7.0	6.7	18.0	17.8	10.6	9.8	23.1	22.7	4.4	4.6	12.9	13.8	18.4	19.2	
Oklahoma	7.8	6.9	5.9	6.0	14.9	14.8	8.3	7.5	23.6	23.2	4.5	4.8	12.5	13.5	22.5	23.3	
Texas	4.8	4.2	6.4	6.5	19.3	19.1	9.0	8.1	25.3	24.9	5.1	5.3	13.1	14.1	17.0	17.8	
Mt.:																	
Mont.	4.4	4.0	6.6	7.4	12.2	12.9	11.4	10.2	24.3	23.1	4.1	3.9	13.9	13.8	23.1	24.7	
Idaho	1.6	1.9	6.2	5.3	19.4	19.6	9.7	8.7	25.5	24.8	3.7	3.9	12.8	12.8	21.1	23.0	
Wyo.	10.0	10.0	11.2	10.1	8.6	7.1	12.3	10.9	21.5	20.7	3.1	3.4	11.2	12.0	22.1	25.8	
Colo.	3.0	2.1	6.5	6.3	17.0	16.8	8.5	7.8	24.0	23.4	4.9	5.2	14.8	15.8	21.3	22.6	
N. Mex.	8.6	7.1	8.0	7.3	7.1	6.7	8.7	7.9	20.9	21.0	4.0	4.4	15.8	17.0	26.9	28.6	
Ariz.	4.6	4.0	9.5	7.2	14.8	15.3	7.4	6.7	23.9	24.0	4.9	5.2	14.6	15.7	20.4	21.9	
Utah	5.2	4.1	5.6	6.0	17.7	18.6	8.4	7.4	22.5	22.2	4.5	4.2	12.6	13.1	23.5	24.4	
Nev.	3.4	2.0	7.5	11.4	5.2	4.6	8.8	7.7	18.8	18.4	3.3	4.0	34.8	35.0	18.2	16.9	
Pac.:																	
Wash.	0.2	0.2	5.5	5.1	26.7	26.2	7.5	7.1	22.2	21.9	4.7	5.0	12.7	13.3	20.5	21.2	
Oreg.	0.2	0.3	5.1	5.1	28.4	26.6	8.7	7.9	22.3	22.2	4.1	4.4	12.5	13.7	18.7	19.8	
Calif.	0.6	0.6	5.9	5.8	26.9	26.2	7.3	6.8	21.8	21.4	5.1	5.2	14.5	15.4	17.9	18.6	
Alaska	1.9	1.9	10.4	6.8	10.3	9.3	12.0	11.2	13.6	13.9	2.7	2.9	9.4	10.2	39.7	43.8	
Hawaii	(1)	(1)	9.3	7.5	14.1	12.4	7.8	7.7	22.7	23.2	4.9	5.5	14.9	17.1	26.3	26.6	

¹ "Mining" combined with "Service and miscellaneous."

² "Mining" combined with "Contract construction."

³ Federal employment in the Maryland and Virginia sectors of Washington, D.C., Standard Metropolitan Statistical Area is included in District of Columbia.

Source: Dept. of Labor, Bureau of Labor Statistics; *Employment and Earnings*.

Labor Force, Employment, and Earnings

No. 302. MARITAL STATUS OF WOMEN IN THE CIVILIAN LABOR FORCE: 1940 TO 1963

[In thousands of persons 14 years old and over, except percent. Beginning 1960, includes Alaska and Hawaii. Includes institutional population. Figures for 1940 based on complete census revised for comparability with intercensal series. Data for 1944-1963 based on Current Population Survey; see Technical Note, p. 215. Beginning 1953, figures not strictly comparable with previous years as a result of introduction into estimating procedure of 1950 Census data through 1961 and of 1960 Census data beginning March 1962. See table 29. See also *Historical Statistics, Colonial Times to 1957*, series D 33-35.]

MONTH AND YEAR	FEMALE LABOR FORCE (1,000)				PERCENT DISTRIBUTION OF FEMALE LABOR FORCE				FEMALE LABOR FORCE AS PERCENT OF FEMALE POPULATION, 14 AND OVER				
	Total	Single	Married		Single	Married		Total	Single	Married	Widowed or divorced		
			Total	Husband present		Total	Husband present						
March 1940	13,840	6,710	5,040	14,200	2,090	48.5	36.4	120,3	15.1	27.4	48.1	16.7	32.0
April 1944	18,449	7,542	8,433	6,228	2,474	40.9	45.7	33.7	13.4	35.0	58.6	25.6	35.7
April 1947	16,323	6,181	7,545	6,676	2,597	37.9	46.2	40.9	15.9	29.8	51.2	21.4	34.6
March 1950	17,795	5,621	9,273	8,550	2,901	31.6	52.1	48.0	16.3	31.4	50.5	24.8	36.0
April 1951	18,602	5,430	10,182	9,086	2,990	29.2	54.7	48.8	16.1	32.4	49.6	26.7	36.1
April 1952	18,812	5,535	10,350	9,222	2,930	29.4	55.0	49.0	15.6	32.4	50.0	26.8	35.3
April 1953	19,304	5,223	10,908	9,763	3,174	27.1	56.5	50.6	16.4	32.8	48.5	27.7	36.3
April 1954	19,726	5,412	11,209	9,923	3,105	27.4	56.8	50.3	15.7	33.1	49.0	28.1	36.0
April 1955	20,154	5,087	11,839	10,423	3,227	25.2	58.7	51.7	16.0	33.5	46.4	29.4	36.0
March 1956	20,842	5,167	12,278	11,120	3,397	24.8	58.9	53.4	16.3	34.2	46.4	30.2	36.9
March 1957	21,524	5,378	12,696	11,529	3,460	25.0	59.0	53.6	16.0	34.8	46.8	30.8	37.6
March 1958	22,000	5,366	13,032	11,826	3,604	24.4	59.2	53.8	16.4	35.0	45.4	31.4	37.9
March 1959	22,376	5,163	13,586	12,205	3,628	23.1	60.7	54.5	16.2	35.2	43.4	32.3	38.0
March 1960	22,516	5,401	13,485	12,253	3,629	24.0	59.9	54.4	16.1	34.8	44.1	31.7	37.1
March 1961	24,199	5,663	14,612	13,266	3,924	23.4	60.4	54.8	16.2	36.8	44.4	34.0	39.0
March 1962	23,978	5,481	14,770	13,485	3,727	22.9	61.6	56.2	15.5	35.7	41.7	33.7	36.6
March 1963	24,675	5,614	15,362	14,061	3,699	22.8	62.3	57.0	15.0	36.1	41.0	34.6	35.8

¹ As of April.

Source: 1940-1958, Dept. of Commerce, Bureau of the Census; *Current Population Reports*, Series P-50. Beginning 1959, Dept. of Labor, Bureau of Labor Statistics; *Special Labor Force Report*, Nos. 2, 13, 20, 26, and 40.

No. 303. CIVILIAN FEMALE POPULATION—TOTAL AND LABOR FORCE, BY MARITAL STATUS AND AGE: 1963

[In thousands of persons 14 years old and over, except percent. As of March. Includes Alaska and Hawaii. Includes institutional population. See headnote, table 289]

MARITAL STATUS AND AGE	Population	LABOR FORCE		MARITAL STATUS AND AGE	Population	LABOR FORCE	
		Number	Percent of population			Number	Percent of population
Total	68,392	24,675	36.1	Married, husband present	41,705	14,061	33.7
14 to 19 years	9,286	2,263	24.4	14 to 19 years	880	202	29.8
20 to 24 years	6,155	2,896	47.1	20 to 24 years	3,792	1,260	33.2
25 to 34 years	11,312	4,123	36.4	25 to 34 years	9,380	2,813	30.0
35 to 44 years	12,540	5,050	45.1	35 to 44 years	10,440	4,152	39.8
45 to 64 years	19,360	8,554	45.7	45 to 64 years	13,755	5,353	38.9
65 years and over	9,739	589	9.1	65 years and over	3,458	221	6.4
Median age—years	40.9	40.7		Median age—years	41.5	41.7	
Single	13,692	5,614	41.0	Other marital status	12,995	5,000	38.5
14 to 19 years	8,272	1,952	23.6	14 to 19 years	134	49	36.6
20 to 24 years	1,900	1,367	71.9	20 to 24 years	463	269	58.1
25 to 34 years	878	715	81.4	25 to 34 years	1,054	595	56.5
35 to 44 years	611	504	82.5	35 to 44 years	1,489	994	66.8
45 to 64 years	1,291	951	73.7	45 to 64 years	4,314	2,560	59.1
65 years and over	740	125	16.9	65 years and over	5,541	543	9.8
Median age—years	18.5	23.1		Median age—years	61.4	50.0	

Source: Dept. of Labor, Bureau of Labor Statistics; *Special Labor Force Report*, No. 40.

No. 304. WOMEN EMPLOYEES IN SELECTED INDUSTRIES: 1950 TO 1963

[In thousands, except percent. As of October. Beginning 1960, includes Alaska and Hawaii. Data are adjusted to March 1962 benchmark levels indicated by data from Government social insurance programs.]

INDUSTRY GROUP	1950		1960		1962		1963	
	Number	Percent of total employment						
MANUFACTURING								
Total	4,291	26	4,434	26	4,627	27	4,656	27
Durable goods	1,481	17	1,677	18	1,805	19	1,805	18
Ordnance and accessories	7	20	40	19	53	19	51	18
Lumber and wood products (except furniture)	57	7	43	7	43	7	44	7
Furniture and fixtures	64	17	65	17	69	18	70	18
Stone, clay, and glass products	94	16	91	15	94	15	94	15
Primary metal industries	74	6	73	6	71	6	71	6
Fabricated metal products	193	18	185	16	191	17	196	17
Machinery	167	13	190	13	198	13	197	13
Electrical equipment and supplies	413	38	529	37	612	38	601	38
Transportation equipment	131	9	176	11	172	11	171	10
Instruments and related products	94	35	117	33	124	34	129	34
Miscellaneous manufacturing industries	189	42	169	41	178	43	182	43
Nondurable goods	2,810	37	2,757	37	2,822	38	2,851	38
Food and kindred products	479	25	481	25	466	25	468	26
Tobacco manufactures	70	58	57	50	54	49	50	47
Textile-mill products	571	43	398	44	397	44	394	44
Apparel and related products	931	74	960	78	1,013	79	1,046	79
Paper and allied products	126	25	133	22	133	21	133	21
Printing, publishing, and allied industries	211	28	262	28	271	29	273	29
Chemicals and allied products	121	18	154	19	160	19	166	19
Petroleum refining and related industries	13	6	17	8	16	8	16	8
Rubber and misc. plastic products	99	29	108	28	125	30	121	29
Leather and leather products	190	47	187	52	188	53	185	53
NONMANUFACTURING								
Mining	n.a.	n.a.	35	5	35	5	35	5
Transportation and public utilities ¹	n.a.	n.a.	680	22	662	21	656	21
Wholesale trade	n.a.	n.a.	701	23	697	22	717	22
Retail trade	n.a.	n.a.	3,646	43	3,707	43	3,774	43
Finance, insurance, and real estate	n.a.	n.a.	1,346	50	1,399	50	1,427	49

n.a. Not available.

¹ Data not available for railroads and certain other transportation segments.

Source: Dept. of Labor, Bureau of Labor Statistics; *Employment and Earnings*.

No. 305. URBAN AND RURAL WORKERS, BY PLACE OF WORK AND TRANSPORTATION TO WORK: 1960

[In thousands, except percent. Data, based on a 25-percent sample of the population (including Alaska, Hawaii, and the Armed Forces), relate to the week preceding the 1960 Census enumeration]

ITEM	NUMBER				PERCENT			
	United States	Urban	Rural nonfarm	Rural farm	United States	Urban	Rural nonfarm	Rural farm
All workers	64,656	47,166	12,945	4,545	100.0	100.0	100.0	100.0
PLACE OF WORK								
County of residence	52,812	38,543	10,393	3,966	81.7	81.7	79.6	87.3
Outside county of residence	8,986	6,404	2,164	418	13.9	13.6	16.7	9.2
Not reported	2,858	2,219	478	161	4.4	4.7	3.7	3.5
TRANSPORTATION TO WORK								
Private automobile or car pool	41,368	30,296	9,390	1,682	64.0	64.2	72.5	37.0
Railroad, subway, or elevated	2,484	2,427	45	3	3.8	5.2	0.3	0.1
Bus or streetcar	5,323	5,143	159	21	8.2	10.9	1.2	0.5
Walked	6,416	4,718	1,436	268	9.9	10.0	11.1	5.8
Other means	1,620	1,029	471	119	2.5	2.2	3.6	2.6
Worked at home	4,668	1,357	992	2,314	7.2	2.9	7.7	50.9
Not reported	2,782	2,186	452	144	4.3	4.6	3.5	3.2

Source: Dept. of Commerce, Bureau of the Census; *U.S. Census of Population: 1960*, Vol. I.

Labor Force, Employment, and Earnings

No. 306. EMPLOYED PERSONS, BY SEX AND MAJOR OCCUPATION GROUP: 1950 TO 1964

[In thousands of persons 14 years old and over. Beginning 1960, includes Alaska and Hawaii. Annual averages, except as indicated. Beginning 1963, not strictly comparable with previous periods because of introduction of 1960 Census data into estimation. See *Historical Statistics, Colonial Times to 1957*, series D 72-572, for related but not comparable data]

MAJOR OCCUPATION GROUP AND SEX	1950 ¹	1955 ¹	1960	1963		1964, March
				Average	March	
Total	59,648	62,997	66,681	68,809	67,148	68,517
Professional, technical, and kindred workers	4,490	5,792	7,475	8,263	8,480	8,603
Farmers and farm managers	4,393	3,739	2,780	2,396	2,381	2,214
Managers, officials, and proprietors, exc. farm	6,429	6,450	7,067	7,293	7,309	7,586
Clerical and kindred workers	7,632	8,367	9,783	10,270	10,220	10,711
Sales workers	3,822	3,976	4,401	4,356	4,248	4,317
Craftsmen, foremen, and kindred workers	7,670	8,328	8,560	8,924	8,460	8,503
Operatives and kindred workers	12,146	12,762	11,986	12,507	12,184	12,665
Private household workers	1,883	1,946	2,216	2,306	2,360	2,302
Service workers, except private household	4,052	5,160	6,133	6,726	6,726	6,870
Farm laborers and foremen	3,015	2,798	2,615	2,219	1,647	1,526
Laborers, except farm and mine	3,520	3,681	3,663	3,551	3,133	3,214
Male	42,156	43,190	44,485	45,330	43,962	44,730
Professional, technical, and kindred workers	2,696	3,608	4,768	5,313	5,383	5,410
Farmers and farm managers	4,154	3,591	2,670	2,265	2,261	2,088
Managers, officials, and proprietors, exc. farm	5,439	5,454	5,967	6,180	6,231	6,452
Clerical and kindred workers	3,035	2,792	3,154	3,128	3,046	3,208
Sales workers	2,879	2,451	2,707	2,642	2,611	2,647
Craftsmen, foremen, and kindred workers	7,482	8,114	8,338	8,688	8,218	8,250
Operatives and kindred workers	8,810	9,235	8,652	9,011	8,768	9,073
Private household workers	125	42	45	60	66	60
Service workers, except private household	2,560	2,615	2,873	3,105	3,154	3,213
Farm laborers and foremen	2,042	1,714	1,728	1,486	1,213	1,132
Laborers, except farm and mine	3,435	3,576	3,583	3,457	3,031	3,127
Female	17,492	19,807	22,196	23,479	23,186	23,786
Professional, technical, and kindred workers	1,794	2,183	2,706	2,951	3,117	3,193
Farmers and farm managers	239	148	111	131	120	126
Managers, officials, and proprietors, exc. farm	990	997	1,009	1,113	1,078	1,133
Clerical and kindred workers	4,597	5,575	6,629	7,142	7,173	7,443
Sales workers	1,443	1,525	1,695	1,714	1,637	1,669
Craftsmen, foremen, and kindred workers	188	215	222	241	242	244
Operatives and kindred workers	3,336	3,527	3,333	3,496	3,416	3,593
Private household workers	1,758	1,904	2,171	2,246	2,295	2,242
Service workers, except private household	2,092	2,545	3,260	3,621	3,572	3,665
Farm laborers and foremen	973	1,085	887	733	434	394
Laborers, except farm and mine	84	105	82	94	102	87

¹ Based on averages of the first month in each quarter. Data have not been adjusted to reflect changes in definition of employment and unemployment adopted in January 1957. For adjusted totals, see table 289.

Source: 1950-1955, Dept. of Commerce, Bureau of the Census; *Current Population Reports*, Series P-50. Beginning 1960, Dept. of Labor, Bureau of Labor Statistics; *Employment and Earnings*.

No. 307. EMPLOYED PERSONS, BY MAJOR OCCUPATION GROUP AND COLOR: 1950 TO 1963

[Percent distribution. Beginning 1960, includes Alaska and Hawaii. See headnote, table 289. 1950 and 1955, annual averages based on data for January, April, July, and October; occupation data not tabulated in other months. Thereafter, annual averages based on 12-months data]

MAJOR OCCUPATION GROUP	WHITE					NONWHITE				
	1950	1955	1960	1962	1963	1950	1955	1960	1962	1963
Total employed	1,000	54,286	56,698	59,640	60,749	61,575	5,672	6,496	7,041	7,008
Percent		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers		40.3	42.1	46.4	47.3	46.9	10.2	12.0	16.0	16.7
Professional and technical workers		8.0	9.8	12.0	12.6	12.7	3.0	3.5	4.7	5.3
Managers, officials, and proprietors, exc. farm		11.6	11.1	11.6	11.9	11.5	2.5	2.3	2.5	2.6
Clerical workers		13.8	14.2	15.6	15.8	15.8	3.5	4.9	7.2	7.2
Sales workers		6.9	6.9	7.2	7.0	6.9	1.2	1.3	1.6	1.8
Blue-collar workers		39.3	39.0	35.9	35.4	35.9	37.5	41.8	39.8	39.5
Craftsmen and foremen		13.7	14.1	13.7	13.6	13.7	4.8	5.2	5.9	6.0
Operatives		20.6	20.2	17.7	17.5	17.9	18.6	20.9	20.1	19.9
Laborers, exc. farm and mine		5.0	4.7	4.5	4.3	4.3	14.1	15.8	13.8	12.9
Service workers		8.5	9.0	10.2	10.6	10.8	33.8	31.0	31.8	32.8
Private household workers		1.6	1.8	2.0	2.1	2.1	17.7	14.8	14.3	14.3
Other service workers		6.9	7.2	8.2	8.5	8.7	16.1	16.8	17.5	18.1
Farm workers		11.7	9.9	7.6	6.8	6.4	18.4	14.5	12.4	11.0
Farmers and managers		7.3	6.0	4.3	4.0	3.0	7.5	5.0	3.1	2.7
Laborers and foremen		4.4	3.9	3.3	2.8	2.7	10.9	9.5	9.3	7.4

Source: 1950, Dept. of Commerce, Bureau of the Census; *Current Population Reports*, Series P-50, P-57, and unpublished data. Thereafter, Dept. of Labor, Bureau of Labor Statistics; *Monthly Labor Review* and *Employment and Earnings*.

Civilian Labor Force

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No. 308. EXPERIENCED CIVILIAN LABOR FORCE, BY SEX AND OCCUPATION, 1950 AND 1960, AND BY SELECTED CHARACTERISTICS, 1960

[Covers persons 14 years old and over. Includes Alaska and Hawaii. For definition, see text, p. 214. "N.e.c." means not elsewhere classified]

SEX AND OCCUPATION	1950	1960				
		Total	Nonwhite		Median earnings, 1959	
			Number	Percent		
Male	42,722,297	45,686,330	4,371,786	9.6	\$4,621	40.6
Professional, technical, and kindred workers	3,024,631	4,542,702	159,122	3.5	6,619	38.2
Accountants and auditors	328,420	396,343	5,439	1.4	6,611	40.1
Architects	22,964	29,720	690	2.3	8,753	41.5
Artists and art teachers	49,917	67,518	2,128	3.2	6,143	37.7
Authors, editors, and reporters	55,373	85,040	1,200	1.4	6,833	39.1
Chemists	68,302	76,967	2,628	3.4	7,163	36.9
Clergymen	162,183	197,109	15,141	7.7	4,020	43.0
College presidents, professors, and instructors (n.e.c.)	96,603	139,508	5,574	4.0	7,207	39.6
Dentists	73,450	81,249	2,879	3.5	10,000+	46.1
Designers and draftsmen	145,885	261,619	6,338	2.4	5,958	32.4
Engineers	362,715	552,398	9,472	1.7	8,361	38.0
Aeronautical	17,604	51,868	1,090	2.1	9,059	36.0
Civil	124,516	157,170	3,295	2.1	7,701	42.2
Electrical	106,241	183,636	3,097	1.7	8,613	36.2
Mechanical	114,354	159,724	1,990	1.2	8,437	38.8
Other technical engineers	165,999	311,780	2,432	0.8	8,304	38.7
Lawyers and judges	176,063	205,515	2,575	1.3	10,000+	45.3
Musicians and music teachers	82,052	86,294	6,815	7.9	4,653	35.8
Natural scientists (n.e.c.)	36,918	59,111	1,657	2.8	7,658	35.2
Pharmacists	81,818	85,482	2,256	2.6	7,202	45.4
Physicians and surgeons	181,069	213,918	8,489	4.0	10,000+	43.2
Social scientists	24,355	42,780	1,022	2.4	7,674	38.1
Social, welfare, and recreation workers	233,556	58,347	6,458	11.1	4,961	36.2
Teachers	222,682	419,528	30,597	7.3	5,610	36.0
Elementary school	62,178	143,936	14,616	10.2	5,220	34.5
Secondary school	160,504	275,592	15,981	5.8	5,827	37.0
Teachers (n.e.c.)	66,516	68,457	3,171	5.4	5,339	37.6
Technicians	46,180	141,658	8,009	5.7	5,449	32.2
Medical and dental	34,231	52,892	5,302	10.0	4,503	34.6
Electrical and electronic	11,949	88,761	2,707	3.0	5,921	31.1
Other professional, technical, and kindred workers	541,611	971,466	34,152	3.5	5,848	36.5
Farmers and farm managers	4,207,360	2,406,089	178,747	7.4	2,169	49.2
Managers, officials, and proprietors, exc. farm	4,407,925	4,695,203	93,581	2.0	6,664	45.4
Officials and inspectors, State and local administration	112,539	135,816	2,682	2.0	5,554	49.7
Other specified managers and officials	486,040	604,449	13,234	2.2	6,613	44.2
Managers, officials, and proprietors (n.e.c.)—salaried	1,598,750	2,252,255	29,710	1.3	7,389	43.3
Manufacturing	395,539	609,914	3,298	0.5	9,156	44.0
Wholesale and retail trade	587,810	708,568	11,131	1.6	6,067	41.3
Finance, insurance, and real estate	106,047	205,267	4,041	1.4	7,971	43.5
Other industries (incl. not reported)	449,354	638,506	11,240	1.8	7,282	44.6
Managers, officials, and proprietors (n.e.c.)—self-employed	2,210,596	1,702,683	47,955	2.8	5,764	48.1
Construction	201,345	227,940	4,949	2.2	6,577	44.5
Manufacturing	231,097	160,141	1,850	1.2	8,076	48.4
Wholesale trade	171,441	128,894	3,666	2.8	7,541	49.0
Eating and drinking places	217,071	145,869	8,220	5.6	4,886	48.4
Retail trade, exc. eating and drinking places	965,385	680,897	15,480	2.3	5,223	48.4
Other industries (incl. not reported)	424,257	358,942	13,790	3.8	5,907	49.1
Clerical and kindred workers	2,723,092	3,120,137	212,771	6.8	4,785	38.0
Bookkeepers	170,446	152,961	3,004	2.0	4,444	38.8
Mail carriers	164,463	197,402	21,768	11.0	5,289	40.4
Other clerical and kindred workers	2,388,183	2,769,774	187,999	6.8	4,736	37.7

See footnotes at end of table.

No. 308. EXPERIENCED CIVILIAN LABOR FORCE, BY SEX AND OCCUPATION, 1950 AND 1960, AND BY SELECTED CHARACTERISTICS, 1960—Continued

[Covers persons 14 years old and over]

SEX AND OCCUPATION	1950	1960			
		Total	Nonwhite		Median earnings, 1959
			Number	Percent	
Male—Continued					
Sales workers.....	2,642,022	3,054,979	63,879	2.1	\$4,987
Insurance agents, brokers, and underwriters.....	250,755	333,126	6,305	1.9	6,173
Real estate agents and brokers.....	122,319	148,957	3,095	2.1	5,978
Other specified sales workers.....	162,369	275,924	10,763	3.9	783
Salesmen and sales clerks (n.e.c.).....	2,106,579	2,296,970	43,716	1.9	4,982
Manufacturing.....	810,917	423,023	2,710	0.6	6,719
Wholesale trade.....	397,363	483,001	4,528	0.9	6,037
Retail trade.....	1,294,689	1,252,619	34,629	2.8	3,894
Other industries (incl. not reported).....	103,610	137,727	1,849	1.3	5,548
Craftsmen, foremen, and kindred workers.....	7,958,853	8,972,749	443,623	4.9	5,240
Bakers.....	110,508	94,183	8,078	8.6	4,552
Blacksmiths, forgemen, and hammermen.....	58,505	33,025	1,698	5.1	4,655
Boilermakers.....	38,697	26,827	825	3.1	5,490
Cabinetmakers and patternmakers.....	111,679	107,718	2,642	2.5	5,142
Carpenters.....	987,365	920,862	48,699	5.3	4,164
Compositors and typesetters.....	187,791	167,046	4,559	2.7	5,758
Cranemen, derrickmen, and hoistmen.....	106,850	131,398	13,100	10.0	5,251
Electricians.....	323,883	352,806	7,605	2.2	5,950
Foremen (n.e.c.).....	786,345	1,117,338	20,944	1.9	6,616
Manufacturing, durable goods.....	278,882	433,314	4,900	1.1	7,347
Manufacturing, nondurable goods (incl. not specified manufacturing).....	188,981	202,595	4,395	1.7	6,404
Nonmanufacturing industry (incl. not reported).....	318,482	421,429	11,649	2.8	6,107
Linemen and servicemen, telegraph, telephone, and power.....	211,795	272,579	4,664	1.7	6,000
Locomotive engineers.....	73,027	57,561	285	0.5	7,667
Locomotive firemen.....	55,955	39,008	923	2.4	5,983
Machinists and job setters.....	551,435	548,579	15,114	2.8	5,498
Masons, tile setters, and stone cutters.....	184,402	213,194	26,222	12.3	4,793
Mechanics and repairmen.....	827,194	921,884	62,545	6.8	4,531
Airplane.....	73,108	116,800	5,374	4.6	5,898
Automobile.....	677,365	700,716	51,875	7.4	4,298
Radio and TV.....	76,721	104,368	5,296	5.1	4,304
Other mechanics and repairmen, and loom fixers.....	973,137	1,375,025	76,621	5.6	4,836
Millwrights.....	59,953	67,792	1,273	1.9	5,905
Molders, metal.....	62,874	50,564	11,875	23.5	4,750
Painters (construction), paperhangers, and glaziers.....	454,422	432,842	33,228	7.7	3,727
Plasterers and cement finishers.....	96,511	100,205	22,826	22.8	4,646
Plumbers and pipe fitters.....	295,732	329,983	12,611	3.8	5,593
Printing craftsmen, exc. compositors and typesetters.....	110,667	127,202	3,306	2.6	6,208
Shoemakers and repairers, except factory.....	56,607	35,509	4,630	13.0	2,899
Stationary engineers.....	217,649	273,896	6,373	2.3	6,296
Structural metal workers.....	55,087	65,885	3,275	5.0	5,543
Tailors and furriers.....	80,781	36,546	2,704	7.4	4,060
Tinsmiths, coppersmiths, and sheet metal workers.....	128,838	143,777	3,420	2.4	5,485
Toolmakers, and die makers and setters.....	155,894	185,395	1,815	1.0	6,527
Other craftsmen and kindred workers.....	615,180	744,120	41,763	5.6	4,800
Operatives and kindred workers.....	8,566,269	9,233,779	1,023,854	11.1	4,299
Apprentices.....	116,789	85,282	2,647	3.1	3,486
Assemblers.....	230,947	375,952	28,948	7.7	4,491
Attendants, auto service and parking.....	241,480	370,201	36,923	10.0	2,296
Brakemen and switchmen, railroad.....	142,107	124,302	3,083	3.0	5,642
Bus drivers.....	152,940	166,273	17,928	10.8	4,411
Cheekers, examiners, and inspectors, manufacturing.....	163,000	277,504	9,920	3.6	5,240
Filters, grinders, and polishers, metal.....	148,620	149,837	12,417	8.3	5,051
Furnacemen, smeltermen, and pourers.....	56,283	56,800	13,305	23.8	5,096
Laundry and dry cleaning operatives.....	148,832	115,748	44,340	38.3	2,948
Meat cutters, exc. slaughter and packing house.....	173,339	180,173	8,920	5.0	4,644

See footnotes at end of table.

Civilian Labor Force

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No. 308. EXPERIENCED CIVILIAN LABOR FORCE, BY SEX AND OCCUPATION, 1950
AND 1960, AND BY SELECTED CHARACTERISTICS, 1960—Continued

[Covers persons 14 years old and over]

SEX AND OCCUPATION	1950	1960						
		Total	Nonwhite		Median earnings, 1959			
			Number	Percent				
Male—Continued								
Operatives and kindred workers—Con.								
Mine operatives and laborers (n.e.c.)	600,601	320,398	17,272	5.2	\$4,240	40.2		
Packers and wrappers (n.e.c.)	123,041	101,457	31,556	16.5	3,333	32.4		
Painters, exc. construction and maintenance	109,018	133,511	14,879	11.1	4,246	38.5		
Power station operators	20,951	25,674	438	1.7	6,238	44.0		
Sailors and deck hands	51,022	40,370	5,430	13.5	4,204	38.8		
Sawyers	96,694	92,187	10,876	18.3	2,775	40.5		
Spinners and weavers, textile	84,188	49,098	574	1.2	3,599	40.6		
Stationary firemen	120,487	91,955	11,958	13.0	4,800	47.3		
Taxicab drivers and chauffeurs	210,312	166,248	31,705	19.1	3,272	45.6		
Truck drivers and deliverymen	3,632,405	2,080,754	277,965	13.4	4,221	37.1		
Welders and flame-cutters	266,833	368,446	24,787	6.7	5,026	39.9		
Other specified operatives and kindred workers	325,420	256,181	21,366	8.3	4,240	40.5		
Operatives and kindred workers (n.e.c.)	3,335,931	3,507,469	390,008	11.1	4,374	38.7		
Manufacturing	2,783,127	2,934,354	298,919	10.2	4,447	38.6		
Durable goods	1,456,662	1,610,720	167,666	10.4	4,542	38.9		
Saw and planing mills, and misc. wood products	171,597	130,846	25,445	19.4	3,067	38.9		
Furniture and fixtures	89,745	90,820	9,029	9.9	3,229	37.1		
Stone, clay, and glass products	129,068	143,488	15,239	10.6	4,542	38.4		
Primary metal industries	240,412	236,965	36,845	15.5	4,821	40.7		
Fabricated metal industries (incl. not specified)	165,369	231,926	19,785	8.5	4,512	38.0		
Machinery, except electrical	192,742	246,265	11,433	4.6	4,705	39.5		
Electrical machinery, equipment, and supplies	112,020	159,548	9,400	5.9	4,802	37.1		
Motor vehicles and motor vehicle equipment	182,519	164,820	23,546	15.2	4,094	39.4		
Transportation equipment, exc. motor vehicle	57,005	102,353	9,240	9.0	4,951	39.2		
Other durable goods	116,185	113,698	7,704	6.8	4,118	38.9		
Nondurable goods	1,318,699	1,317,445	129,986	9.9	4,316	38.3		
Food and kindred products	290,613	325,551	58,155	16.3	4,248	38.2		
Yarn, thread, and fabric mills	204,327	138,242	7,007	5.1	3,155	39.0		
Knitting, and other textile mill products	48,452	53,916	4,107	7.6	3,493	39.0		
Apparel and other fabricated textile products	143,557	116,774	8,989	7.7	3,804	41.4		
Paper and allied products	147,755	174,670	12,360	7.1	4,920	35.7		
Chemicals and allied products	136,326	164,616	16,668	10.1	5,306	38.4		
Other nondurable goods	347,669	343,676	27,700	8.1	4,541	38.5		
Not specified manufacturing industries	7,766	6,180	1,267	20.5	3,543	34.5		
Nonmanufacturing industries (incl. not reported)	552,804	573,115	91,089	15.9	3,950	38.8		
Transportation, communication, and other public utilities	109,412	137,660	17,282	12.6	4,669	43.2		
Wholesale and retail trade	158,507	159,569	29,326	18.4	3,443	36.8		
Other industries (incl. not reported)	224,885	275,880	44,481	16.1	3,698	37.4		
Private household workers	77,860	65,013	31,498	48.4	1,078	47.2		
Service workers, exc. private household	2,508,713	2,745,288	590,689	21.5	3,310	43.4		
Barbers	179,928	175,216	16,734	9.6	3,716	48.8		
Charwomen, janitors, and porters	4,639,462	754,066	290,295	38.5	2,756	48.5		
Cooks, except private household	213,278	215,978	59,107	27.4	3,397	42.8		
Elevator operators	65,832	51,677	11,410	22.1	3,359	52.2		
Firemen, fire protection	111,200	138,694	3,533	2.5	5,469	38.6		
Guards and watchmen	244,187	250,421	14,742	5.9	3,950	52.8		
Policemen, sheriffs, and marshals	5,216,176	276,976	10,803	3.9	5,210	38.7		
Waiters, bartenders, and counter workers	369,451	331,013	49,117	14.8	2,975	40.8		
Other service workers, exc. private household	469,199	551,247	134,948	24.5	2,062	33.5		

See footnotes at end of table.

No. 308. EXPERIENCED CIVILIAN LABOR FORCE, BY SEX AND OCCUPATION, 1950
AND 1960, AND BY SELECTED CHARACTERISTICS, 1960—Continued

[Covers persons 14 years old and over]

SEX AND OCCUPATION	1950	1960			
		Total	Nonwhite		Median earnings, 1959
			Number	Percent	
Male—Continued					
Farm laborers and foremen	2,063,625	1,289,827	309,028	24.0	\$1,066
Farm laborers:					
Unpaid family workers	600,111	158,946	21,998	13.8	649
Exc. unpaid, and farm foremen	1,463,514	1,130,881	287,030	25.4	1,124
Laborers, except farm and mine	3,634,332	3,404,973	887,450	26.1	2,948
Fishermen and oystermen	76,586	40,480	5,231	12.9	2,395
Longshoremen and stevedores	71,763	60,302	22,588	38.0	4,710
Lumbermen, raftsmen, and wood choppers	187,518	135,197	40,744	30.1	1,748
Other specified laborers	431,141	520,463	132,357	25.4	2,566
Laborers (n.e.c.)	2,867,324	2,648,531	686,220	25.9	3,049
Manufacturing	1,079,578	898,899	218,318	24.3	3,623
Durable goods	696,530	590,690	142,928	24.2	3,668
Furniture, saw and planing mills, and misc. wood products	178,924	123,007	37,618	30.4	2,395
Stone, clay, and glass products	78,872	80,170	15,848	19.8	3,705
Primary metal industries	215,998	184,999	49,386	26.7	4,040
Fabricated metal industries (incl. not specified)	54,185	57,015	10,342	18.1	3,779
Machinery, including electrical	80,750	70,977	9,973	14.1	3,962
Transportation equipment	72,306	60,629	18,032	29.7	4,218
Other durable goods	15,495	12,098	1,729	13.3	3,345
Nondurable goods	373,558	305,503	74,555	24.4	3,533
Food and kindred products	149,035	125,258	29,424	23.5	3,368
Textile mill products and apparel	57,332	39,753	8,063	22.5	2,639
Chemicals and allied products	52,252	46,590	14,263	30.6	3,087
Other nondurable goods	114,939	93,902	21,905	23.3	4,071
Not specified manufacturing industries	9,490	2,206	835	37.9	3,129
Nonmanufacturing industries (incl. not reported)	1,787,746	1,750,132	467,902	26.7	2,680
Construction	692,981	746,145	203,798	27.3	2,965
Railroads and railway express service	277,337	133,295	39,279	29.5	4,024
Transportation, except railroad	84,649	89,386	19,829	22.2	3,714
Communication, and utilities and sanitary service	129,811	122,027	38,230	31.3	3,433
Wholesale and retail trade	253,740	353,667	67,249	19.0	1,318
Other industries (incl. not reported)	349,228	305,612	99,517	32.6	1,841
Occupation not reported	907,615	2,155,591	377,544	17.5	4,114
Female	16,507,234	22,303,748	2,848,334	12.8	2,257
Professional, technical, and kindred workers	1,975,847	2,792,997	201,080	7.2	3,625
Accountants and auditors	56,884	80,483	2,008	2.5	4,209
Actors, dancers, and entertainers (n.e.c.)	23,569	24,679	1,061	4.3	1,880
Artists and art teachers	30,862	37,187	1,010	2.7	3,433
Authors, editors, and reporters	33,672	45,608	568	1.2	3,339
College presidents, professors, and instructors (n.e.c.)	29,267	39,168	2,250	5.7	4,780
Designers and draftsmen	19,430	24,943	860	3.4	4,122
Dietitians and nutritionists	21,515	24,757	8,951	16.0	2,916
Lawyers and judges	6,348	7,543	197	2.6	5,199
Librarians	49,597	72,431	8,694	5.1	3,572
Musicians and music teachers	79,907	111,235	4,202	3.8	1,301
Natural scientists	13,654	15,052	928	6.2	4,970
Nurses, professional	395,638	577,038	37,685	6.5	3,186
Nurses, student professional	75,344	56,745	2,172	3.8	622
Physicians and surgeons	11,823	15,672	1,581	10.1	5,517
Social scientists	11,677	14,375	497	3.5	4,578
Social, welfare, and recreation workers	2,60,291	78,017	9,650	12.4	4,074
Teachers	826,394	1,111,721	101,512	9.1	4,120
Elementary school	616,208	866,746	81,945	9.5	4,033
Secondary school	210,186	244,975	19,567	8.0	4,427
Teachers (n.e.c.)	17,727	93,960	6,909	7.4	2,655
Technicians, medical and dental	44,154	87,944	6,855	7.8	3,180
Therapists and healers (n.e.c.)	12,393	20,204	1,198	5.9	3,522
Other professional, technical, and kindred workers	155,701	254,235	12,272	4.8	3,720

See footnotes at end of table.

No. 308. EXPERIENCED CIVILIAN LABOR FORCE, BY SEX AND OCCUPATION, 1950
AND 1960, AND BY SELECTED CHARACTERISTICS, 1960—Continued

[Covers persons 14 years old and over]

SEX AND OCCUPATION	1950	1960				
		Total	Nonwhite		Median earnings, 1959	
			Number	Percent		
Female—Continued						
Farmers and farm managers	118,021	119,818	18,095	15.1	\$836	51.4
Managers, officials, and proprietors, exc. farm	688,214	794,286	31,095	3.9	3,355	47.9
Specified managers and officials	129,590	163,180	4,185	2.6	3,509	47.6
Managers, officials, and proprietors (n.e.c.)— salaried	218,598	341,193	10,606	3.1	3,701	45.6
Wholesale and retail trade	88,150	110,430	3,750	3.4	3,309	45.0
Other industries (incl. not reported)	130,448	230,763	6,856	3.0	3,926	45.9
Managers, officials, and proprietors (n.e.c.)— self-employed	340,026	289,904	16,304	5.6	2,429	50.3
Eating and drinking places	76,806	66,380	6,246	9.4	2,052	47.0
Wholesale and retail trade, exc. eating and drinking places	174,883	124,488	5,974	4.8	2,352	50.9
Other industries (incl. not reported)	88,337	99,036	4,084	4.1	2,838	51.3
Clerical and kindred workers	4,408,498	6,497,350	236,440	3.6	3,017	36.0
Bookkeepers	568,258	783,309	11,285	1.4	3,002	39.1
Cashiers	190,932	386,834	14,454	3.7	1,964	36.8
Office machine operators	120,348	236,413	11,799	5.0	3,242	30.6
Secretaries	781,324	1,451,639	28,384	2.0	3,368	34.5
Stenographers	416,844	284,157	7,469	2.8	3,340	32.7
Telephone operators	360,073	356,186	9,398	2.6	3,188	35.8
Typists	339,875	516,844	34,667	6.7	2,801	29.3
Other clerical and kindred workers	1,640,844	2,501,968	118,984	4.8	2,852	37.6
Sales workers	1,383,134	1,746,362	49,686	2.8	1,498	43.3
Insurance and real estate agents and brokers	6 45,979	82,889	3,663	4.4	3,018	47.0
Other specified sales workers	25,428	71,808	2,318	3.2	773	39.3
Salesmen and sales clerks (n.e.c.), retail trade	1,240,816	1,471,694	39,872	2.7	1,475	43.4
Salesmen and sales clerks (n.e.c.), exc. retail trade	70,911	119,971	3,833	3.2	1,638	42.0
Craftsmen, foremen, and kindred workers	246,068	268,234	19,525	7.3	2,927	43.6
Foremen (n.e.c.)	69,621	81,717	3,309	4.1	3,497	45.0
Other craftsmen and kindred workers	176,447	186,517	16,156	8.7	2,601	42.9
Operatives and kindred workers	3,188,051	3,612,265	383,831	10.6	2,319	41.1
Assemblers	156,957	310,802	17,306	5.6	2,908	30.3
Checkers, examiners, and inspectors, manu- facturing	185,772	236,631	10,425	4.4	2,886	41.5
Dressmakers and seamstresses, except fac- tory	142,896	119,510	10,963	9.2	1,401	55.3
Laundry and dry cleaning operatives	301,993	296,294	112,031	37.8	1,616	42.7
Spinners and weavers, textile	103,392	68,841	486	0.7	2,606	43.0
Other specified operatives and kindred workers	881,371	1,094,612	80,441	7.3	2,202	40.7
Operatives and kindred workers (n.e.c.)	1,415,670	1,485,575	152,179	10.2	2,401	40.4
Manufacturing	1,295,522	1,370,880	129,847	9.5	2,439	40.3
Durable goods	392,229	437,123	33,195	7.6	2,887	39.6
Machinery, including electrical	141,612	187,189	9,950	5.3	3,091	38.5
Other durable goods	250,617	249,934	23,245	9.3	2,737	40.6
Nondurable goods	903,203	933,757	96,652	10.4	2,290	40.7
Food and kindred products	103,526	144,744	26,530	18.3	1,601	41.6
Textile mill products	219,700	179,462	5,808	3.2	2,414	40.8
Apparel and other fabricated textile products	276,873	310,984	41,089	12.8	2,149	40.6
Other nondurable goods (incl. not specified manufacturing)	303,128	289,567	23,216	8.0	2,583	40.2
Nonmanufacturing industry (incl. not re- ported)	120,148	114,695	22,332	19.5	1,738	41.2

See footnotes at end of table.

No. 308. EXPERIENCED CIVILIAN LABOR FORCE, BY SEX AND OCCUPATION, 1950
AND 1960, AND BY SELECTED CHARACTERISTICS, 1960—Continued

[Covers persons 14 years old and over]

SEX AND OCCUPATION	1950	1960			
		Total	Nonwhite		Median earnings, 1959
			Number	Percent	
Female—Continued					
Private household workers	1,413,689	1,759,804	958,875	54.5	\$684
Private household workers—living in	204,100	159,670	42,175	26.4	1,178
Private household workers—living out	1,209,589	1,600,125	916,700	57.3	658
Service workers, exc. private household	2,014,857	3,020,193	590,053	19.5	1,385
Attendants, hospital and other institution	125,173	300,970	73,254	24.3	1,840
Charwomen, janitors, and porters	4 133,724	213,287	56,650	26.6	1,332
Cooks, except private household	252,412	381,078	89,688	23.5	1,337
Hairdressers and cosmetologists	194,474	271,623	34,482	12.7	1,993
Housekeepers and stewards, exc. private household	85,291	121,811	12,775	10.5	2,118
Practical nurses and midwives	140,439	208,267	35,788	17.2	1,839
Waiters, bartenders, and counter workers	649,551	916,976	69,728	7.6	1,055
Other service workers, exc. private household	433,793	606,192	217,688	35.9	1,207
Farm laborers and foremen	469,000	269,697	91,390	33.9	602
Farm laborers:					
Unpaid family workers	320,543	125,392	15,890	12.7	624
Exc. unpaid, and farm foremen	148,457	144,305	75,500	52.3	600
Laborers, except farm and mine	139,849	125,049	30,003	24.0	1,872
Occupation not reported	462,006	1,297,693	238,281	18.4	2,187

¹ Exact median not available. ² Includes group workers.

³ Includes tractor drivers. ⁴ Includes sextons.

⁵ Includes constables, detectives, and bailiffs. ⁶ Includes underwriters.

⁷ Includes all baby sitters, whether living in or living out.

Source: Dept. of Commerce, Bureau of the Census: *U.S. Census of Population; 1960*, Vol. I.

No. 309. CLASS OF WORKER OF EMPLOYED PERSONS, BY SEX: 1950 TO 1964

[In thousands of persons 14 years old and over. Beginning 1960, includes Alaska and Hawaii. Annual averages, except as indicated. See headnote, table 306. See *Historical Statistics, Colonial Times to 1957*, series D 72-572, for related but not comparable data]

CLASS OF WORKER AND SEX	1950 ¹	1955 ¹	1960	1963		1964, March
				Average	March	
EMPLOYED IN AGRICULTURE						
Male	6,280	5,487	4,678	4,021	3,711	3,432
Wage and salary workers	1,504	1,415	1,558	1,375	1,202	1,057
Self-employed workers	4,115	3,582	2,687	2,301	2,252	2,117
Unpaid family workers	661	489	433	345	257	258
Female	1,227	1,243	1,045	925	625	585
Wage and salary workers	230	235	308	300	157	128
Self-employed workers	231	149	116	136	121	136
Unpaid family workers	766	810	621	489	348	322
EMPLOYED IN NONAGRICULTURAL INDUSTRIES						
Male	36,007	37,803	39,807	41,309	40,251	41,299
Wage and salary workers	31,049	32,934	34,689	36,412	35,381	36,364
In private households	238	254	288	329	224	220
Government workers	3,831	4,234	4,788	5,456	5,446	5,064
Other wage and salary workers	20,980	28,446	29,613	30,627	29,711	30,471
Self-employed workers	4,885	4,809	5,027	4,816	4,793	4,859
Unpaid family workers	74	60	91	81	76	76
Female	16,443	18,661	21,151	22,554	22,560	23,261
Wage and salary workers	14,929	17,119	19,287	20,669	20,636	21,220
In private households	1,757	1,962	2,201	2,254	2,313	2,248
Government workers	1,986	2,604	3,155	3,636	3,808	3,937
Other wage and salary workers	11,185	12,554	13,931	14,779	14,515	15,035
Self-employed workers	1,184	1,077	1,340	1,379	1,418	1,430
Unpaid family workers	330	465	524	506	506	551

¹ Data have not been adjusted to reflect change in definition of employment and unemployment adopted in January 1957. For adjusted totals, see table 289.

Source: 1950-1955, Dept. of Commerce, Bureau of the Census; *Current Population Reports*, Series P-50. Beginning 1960, Dept. of Labor, Bureau of Labor Statistics; *Employment and Earnings*.

Labor Indexes

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No. 310. INDEXES OF OUTPUT, PAYMENTS, AND PRICES IN THE PRIVATE ECONOMY AND THE NONFARM SECTOR: 1947 TO 1963

[1957-59=100. Beginning 1960, includes Alaska and Hawaii. In addition to wages and salaries of employees, labor payments include such supplements as employer contributions to social security, private insurance and pension funds, compensation for injuries, and other minor items of labor income. Nonlabor payments are derived as the difference between labor payments and gross national product in current dollars]

ITEM	1947	1950	1955	1960	1961	1962	1963 (prel.)
Output per man-hour:							
Total private economy:							
Output per man-hour—all persons.....	70.9	80.9	93.8	105.2	108.7	112.9	116.8
Output per man-hour—employees.....	75.6	84.6	95.0	103.9	107.1	110.7	113.0
Private nonfarm sector:							
Output per man-hour—all persons.....	76.3	85.1	95.3	104.6	107.6	111.7	115.0
Output per man-hour—employees.....	75.8	84.7	94.9	104.4	107.4	111.1	113.4
Compensation per man-hour:							
Total private economy:							
Compensation per employee man-hour.....	55.8	65.8	85.5	108.0	111.6	115.9	119.7
Real compensation per employee man-hour.....	71.7	78.5	91.6	104.8	107.1	110.0	112.2
Private nonfarm sector:							
Compensation per employee man-hour.....	55.9	66.1	85.7	108.4	111.7	116.0	119.6
Real compensation per employee man-hour.....	71.9	78.9	91.9	105.1	107.2	110.1	112.1
Prices and costs:							
Private nonfarm sector:							
Payments per unit of output (implicit prices).....	73.7	80.6	92.2	102.9	103.9	104.7	106.0
Employee compensation per unit of output.....	73.7	78.0	90.4	103.8	104.0	104.4	105.5
Nonlabor payments per unit of output.....	73.7	83.9	94.5	101.8	103.7	104.9	106.8
Underlying data:							
Total private economy:							
Product in constant dollars.....	68.4	77.3	95.0	106.8	108.6	115.3	120.0
Product in current dollars.....	52.4	63.6	87.6	109.7	112.6	120.6	126.9
Man-hours of all persons.....	96.5	95.6	101.3	101.5	99.9	102.1	102.7
Man-hours of employees.....	90.5	91.4	100.0	102.8	101.4	104.2	106.2
Compensation of employees in current dollars.....	50.5	60.1	85.5	111.0	118.2	120.8	127.1
Wages and salaries of employees in current dollars.....	51.9	61.2	86.3	110.1	112.2	119.3	125.1
Private nonfarm sector:							
Product in constant dollars.....	67.7	76.4	94.5	106.9	108.8	115.9	120.7
Product in current dollars.....	49.9	61.6	87.1	110.0	113.0	121.3	128.0
Man-hours of all persons.....	88.7	89.8	99.2	102.2	101.1	103.8	105.0
Man-hours of employees.....	89.3	90.2	99.6	102.4	101.3	104.3	106.4
Compensation of employees in current dollars.....	49.9	59.6	85.4	111.0	113.2	121.0	127.3
Wages and salaries of employees in current dollars.....	51.2	60.8	86.2	110.1	112.2	119.5	125.3
Nonlabor payments in current dollars.....	49.9	64.1	89.3	108.8	112.8	121.6	128.9
Consumer price index.....	77.8	83.8	93.3	103.1	104.2	105.4	106.7

No. 311. INDEXES OF REAL PRODUCT PER MAN-HOUR FOR THE PRIVATE ECONOMY: 1947 TO 1963

[1957-59=100. Beginning 1960, includes Alaska and Hawaii. Covers wage and salary workers, self-employed, and unpaid family workers. Man-hour estimates based primarily on data from reports specified; see text, p. 213. See *Historical Statistics, Colonial Times to 1957*, series W 9-11, for indexes on a 1947-49 base]

YEAR	BASED ON ESTABLISHMENT REPORTS					BASED ON LABOR FORCE REPORTS		
	Total	Agriculture	Nonagricultural industries			Total	Agriculture	Nonagri-cultural industries
			Total	Manufacturing	Non-manufacturing			
1947.....	70.9	50.2	76.3	74.8	76.8	68.5	50.2	73.8
1950.....	80.9	64.7	85.1	83.7	85.6	77.5	64.5	81.4
1952.....	84.7	69.9	87.6	86.4	87.9	83.7	69.4	86.7
1953.....	88.2	77.8	90.0	90.6	89.0	87.5	77.3	89.5
1954.....	89.8	83.4	91.4	89.8	92.0	89.7	83.0	91.5
1955.....	93.8	86.4	95.3	96.0	94.6	94.1	85.9	95.8
1956.....	93.9	88.3	94.9	97.1	93.4	94.4	87.8	95.7
1957.....	97.2	94.2	97.6	97.3	97.6	97.5	94.2	98.0
1958.....	99.6	103.0	99.4	99.1	99.8	99.1	103.1	98.8
1959.....	103.2	102.8	103.0	103.7	102.6	103.4	102.7	103.2
1960.....	105.2	109.3	104.6	(*)	(*)	104.8	109.3	104.1
1961.....	108.7	115.8	107.6	(*)	(*)	107.4	116.3	106.0
1962.....	112.0	119.7	111.7	(*)	(*)	112.1	119.9	110.6
1963 (prel.).....	116.8	128.5	115.0	(*)	(*)	115.8	128.8	113.5

¹ Since the output data on which the manufacturing estimates are based are being substantially revised by Dept. of Commerce, Dept. of Labor considers it misleading to continue to publish the manufacturing (and non-manufacturing) indexes previously released. Revised indexes will be published in mid-1964 when all revised production data will be available.

Source of tables 310 and 311: Dept. of Labor, Bureau of Labor Statistics; periodic releases.

Labor Force, Employment, and Earnings

No. 312. INDEXES OF OUTPUT PER MAN-HOUR—PRODUCTION WORKERS, SELECTED INDUSTRIES: 1939 TO 1961

[1957-59=100. Beginning 1959, includes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1957*, series W 13-32 and W 44, for indexes on a 1947 base]

INDUSTRY	1939	1947	1950	1955	1957	1958	1959	1960	1961
NONMANUFACTURING									
Coal mining ^{1,2,3}	48.4	54.3	61.4	87.4	92.6	102.0	107.1	116.2	131.3
Bituminous coal ^{2,3}	47.2	53.7	61.7	87.8	92.9	103.2	106.4	114.3	129.0
Copper (recoverable metal) ³	63.1	72.4	84.2	89.9	94.1	106.2	101.3	104.5	109.5
Iron (usable ore) ³	85.4	93.6	97.1	114.3	106.7	95.3	94.6	106.2	110.0
Railroad transportation (revenue traffic) ⁴	47.8	64.4	71.1	88.3	94.4	100.2	106.6	111.1	119.7
MANUFACTURING									
Basic steel ^{2,6}	60.0	75.8	84.8	98.0	97.5	95.6	107.4	n.a.	n.a.
Blast furnace and basic steel products ^{2,6}	n.a.	n.a.	n.a.	n.a.	98.7	96.7	105.3	100.4	105.1
Beet-sugar refining ^{5,7}	65.8	61.2	75.4	n.a.	n.a.	98.1	103.9	106.9	n.a.
Canning and preserving group ²	55.5	61.7	75.7	89.4	98.4	98.2	103.5	106.0	n.a.
Cement ⁸	51.6	60.8	70.5	91.6	92.4	99.7	108.3	102.8	n.a.
Clay construction products ^{7,8}	71.6	76.0	87.3	103.2	99.4	99.8	n.a.	n.a.	n.a.
Confectionery ^{6,7}	62.7	70.1	71.7	88.0	97.7	99.7	102.6	106.4	n.a.
Flour and other grain-mill products ^{5,7}	78.0	71.3	69.7	86.8	99.2	102.7	98.2	104.0	n.a.
Glass containers ^{5,7}	73.8	94.9	95.1	99.7	99.8	97.3	102.9	100.6	n.a.
Malt liquors ^{6,7}	55.3	64.7	77.8	87.2	93.1	102.1	105.5	108.3	n.a.
Paper and pulp ^{7,8}	71.8	65.8	78.4	90.4	96.1	98.8	104.9	109.3	n.a.
Petroleum refining ^{5,7}	55.0	53.5	68.3	87.8	93.2	98.1	109.7	114.1	n.a.
Tires and inner tubes ^{5,8}	n.a.	67.8	82.7	86.2	93.8	99.0	107.4	112.1	n.a.
Primary smelting and refining of copper, lead, and zinc ^{5,7}	62.9	64.1	77.8	96.8	99.3	100.8	100.0	101.2	n.a.
Tobacco products ^{2,6}	54.8	68.4	81.4	85.4	94.8	100.5	104.8	112.7	118.3
Cigars ^{2,6}	48.7	53.3	65.4	75.8	88.7	101.1	111.6	121.4	123.8
Cigarettes, chewing and smoking tobacco, and snuff ^{2,5}	60.2	86.4	90.2	94.4	99.7	100.0	100.3	106.9	111.4

¹ Not available.

² Production-worker-hours paid.

³ Adjusted to levels indicated by 1939, 1954, and 1958 Censuses of Mineral Industries.

⁴ Class I line-haul railroads; in terms of hours worked plus constructive allowances, hourly basis employees.

⁵ Adjusted to levels indicated by 1947, 1954, and 1958 Censuses of Manufactures.

⁶ Not comparable to index for basic steel due to changes in Standard Industrial Classification.

⁷ Production-worker-hours paid prior to 1947, and hours worked thereafter.

⁸ Production-worker-hours worked.

⁹ Adjusted to levels indicated by 1947 and 1954 Censuses of Manufactures.

Source: Dept. of Labor, Bureau of Labor Statistics; *Indexes of Output Per Man-Hour for Selected Industries, 1939 and 1947-61*.

No. 313. PRODUCTION WORKERS IN MANUFACTURING INDUSTRIES—NUMBER, WEEKLY AND HOURLY EARNINGS, AND WEEKLY HOURS: 1940 TO 1964

[Beginning 1959, includes Alaska and Hawaii. Workers include all full- and part-time employees who worked during, or received pay for, any part of pay period including 12th of month; data adjusted to March 1962 benchmark levels indicated by data from Government social insurance programs. Net spendable average weekly earnings represent average gross earnings less social security and income taxes for which specified worker is liable. Net spendable earnings then divided by BLS consumers price index, adjusted to average 1957-59 base, to obtain net spendable earnings in 1957-59 dollars. Overtime defined as work in excess of either straight-time workday or workweek and paid for at time and one-half. Computation of average hourly earnings exclusive of overtime makes no allowance for special rates of pay for work on holidays. See also *Historical Statistics, Colonial Times to 1957*, series D 626-628.]

YEAR	Workers, annual average (1,000)	Gross average weekly earnings	NET SPENDABLE AVERAGE WEEKLY EARNINGS				Average weekly hours	AVERAGE HOURLY EARNINGS		
			Worker with no dependents		Worker with 3 dependents			Gross	Exclud- ing overtime	
			Current dollars	1957-59 dollars	Current dollars	1957-59 dollars				
1940	8,940	\$24.96	\$24.46	\$50.12	\$24.71	\$50.64	38.1	\$0.66		
1945	13,009	44.20	36.82	58.72	42.59	67.93	43.5	1.02	¹ \$0.95	
1950	12,523	58.82	50.26	59.98	56.38	67.26	40.5	1.44	1.39	
1955	13,288	75.70	62.51	67.00	69.79	74.80	40.7	1.86	1.79	
1957	13,189	81.59	66.93	68.30	74.31	75.83	39.8	2.05	1.99	
1958	11,997	82.71	67.82	67.35	75.23	74.71	39.2	2.11	2.05	
1959	12,603	88.26	71.89	70.83	79.40	78.23	40.3	2.19	2.12	
1960	12,586	89.72	72.57	70.39	80.11	77.70	39.7	2.26	2.19	
1961	12,085	92.34	74.60	71.59	82.18	78.87	39.8	2.32	2.25	
1962	12,494	96.56	77.86	73.87	85.53	81.15	40.4	2.39	2.31	
1963	12,585	99.38	79.03	74.63	87.37	81.88	40.4	2.46	2.37	
1964, March (prel.)	12,588	101.40	83.16	77.21	90.89	84.39	40.4	2.51	2.43	

¹ 11-month average; August 1945 excluded because of V-J day holiday period.

Source: Dept. of Labor, Bureau of Labor Statistics; *Employment and Earnings*.

No. 314. PRODUCTION WORKERS—HOURS AND GROSS EARNINGS, BY INDUSTRY: 1960, 1962, AND 1963

Includes Alaska and Hawaii. Data based on reports from cooperating establishments covering both full- and part-time employees who worked during, or received pay for, any part of the pay period ending nearest the 15th of the month. For mining, manufacturing, laundries, and cleaning and dyeing plants, data refer to production and related workers only; for contract construction industries, to employees engaged in actual construction work; for other industries, to nonsupervisory employees and working supervisors. See also *Historical Statistics, Colonial Times to 1957*, series D 626-641 and D 669-684, for selected industries.

INDUSTRY	AVERAGE WEEKLY EARNINGS			AVERAGE WEEKLY HOURS			AVERAGE HOURLY EARNINGS		
				1960	1962	1963	1960	1962	1963
	1960	1962	1963						
Mining									
Metal mining	\$105.44	\$110.70	\$114.40	40.4	41.0	41.6	\$2.61	\$2.70	\$2.75
Coal mining	111.19	117.45	118.68	41.8	41.5	41.2	2.66	2.83	2.88
Crude petroleum and natural-gas production (exc. contract services)	110.41	113.09	119.95	35.5	36.0	38.8	3.11	3.09	3.12
Quarrying and nonmetallic mining	96.58	105.43	109.03	48.7	44.3	44.5	2.21	2.38	2.45
Contract construction									
General building contractors	113.04	122.47	127.57	36.7	37.0	37.3	3.08	3.31	3.42
Heavy construction	103.72	112.50	117.72	35.4	35.6	36.0	2.98	3.16	3.27
Special trade contractors	115.30	122.31	128.03	40.6	40.5	41.3	3.24	3.02	3.10
118.11	128.50	133.59	35.9	36.3	36.5	3.29	3.54	3.66	
Manufacturing									
Durable goods									
Ordnance and accessories	89.72	96.56	99.38	39.7	40.4	40.4	2.26	2.39	2.46
Lumber and wood products (exc. furniture)	97.44	104.70	108.09	40.1	40.9	41.1	2.43	2.56	2.63
Sawmills and planing mills	108.94	116.31	119.60	40.8	41.1	41.1	2.67	2.88	2.91
Millwork, plywood, and related products	73.71	79.20	81.80	39.0	39.8	40.1	1.89	1.99	2.04
Wooden containers	81.59	87.12	89.40	39.8	39.4	40.0	1.71	1.82	1.87
Furniture and fixtures	62.02	66.17	68.04	39.5	40.1	40.5	1.57	1.65	1.68
Household furniture	75.20	79.37	81.89	40.0	40.7	40.9	1.88	1.95	1.99
Office furniture	70.45	75.07	77.30	39.8	40.8	40.9	1.77	1.84	1.89
Partitions, office and store	90.88	92.57	95.35	41.1	40.6	41.1	2.21	2.28	2.32
Stone, clay, and glass products	96.72	103.57	103.42	40.3	41.1	40.4	2.40	2.52	2.56
Flat glass	92.57	98.57	102.42	40.6	40.9	41.3	2.28	2.41	2.48
Glass and glassware, pressed or blown	127.86	126.01	135.20	40.4	38.3	40.0	3.16	3.29	3.38
Cement, hydraulic	91.94	98.33	99.75	39.8	40.3	39.9	2.31	2.44	2.50
Structural clay products	102.87	112.75	116.60	40.5	41.0	41.2	2.54	2.75	2.83
Pottery and related products	82.21	86.69	89.40	40.3	40.7	41.2	2.04	2.13	2.17
Concrete, gypsum, and plaster products	80.98	86.85	89.77	38.2	39.3	39.2	2.12	2.21	2.29
Concreting, gypsum, and plaster products	93.04	100.96	105.65	42.1	42.6	43.3	2.21	2.37	2.44
Primary metal industries									
Blast furnace and basic steel products	109.59	119.80	124.64	39.0	40.2	41.0	2.81	2.98	3.04
Iron and steel foundries	116.13	127.40	133.06	38.2	39.2	40.2	3.04	3.25	3.31
Nonferrous smelting and refining	96.61	106.52	113.01	38.8	40.5	41.7	2.49	2.63	2.71
Nonferrous rolling, drawing, and extruding	108.09	114.95	118.50	41.1	41.2	41.6	2.63	2.70	2.85
Nonferrous foundries	105.01	116.05	118.72	40.7	42.2	42.4	2.58	2.75	2.80
97.11	104.55	107.12	39.8	41.0	41.2	2.44	2.55	2.60	
Fabricated metal products (exc. ordnance, machinery, and transportation equipment)									
Metal cans	98.42	104.81	108.05	40.5	41.1	41.4	2.43	2.55	2.61
Cutlery, handtools, and general hardware	114.08	126.30	128.17	41.4	42.1	42.3	2.77	3.00	3.08
Heating equipment and plumbing fixtures	92.63	99.14	103.73	40.1	40.8	41.0	2.31	2.43	2.53
Fabricated structural metal products	01.03	98.55	101.56	38.9	39.9	40.3	2.34	2.47	2.52
Screw machine products, bolts, etc.	99.47	104.60	107.27	40.6	40.7	41.1	2.45	2.57	2.61
Metal stampings	95.18	106.00	108.03	40.5	42.4	42.2	2.35	2.50	2.56
Coating, engraving, and allied services	108.16	111.76	116.47	41.6	41.7	42.2	2.60	2.68	2.76
86.43	93.34	94.94	40.2	41.3	41.1	2.15	2.26	2.31	
Machinery (except electrical)									
Engines and turbines	104.55	113.01	116.20	41.0	41.7	41.8	2.55	2.71	2.78
Farm machinery and equipment	109.69	119.88	123.73	39.6	40.5	40.7	2.77	2.96	3.04
Construction and related machinery	99.05	107.59	111.93	40.1	40.6	40.7	2.47	2.65	2.75
Metalworking machinery and equipment	102.66	112.34	115.79	40.1	41.3	41.5	2.56	2.72	2.79
Special-industry machinery (except metalworking)	117.27	125.57	129.33	42.8	43.3	43.4	2.74	2.90	2.98
99.72	106.77	109.98	41.9	42.2	42.3	2.38	2.53	2.60	
General industrial machinery	101.71	110.88	113.71	40.2	41.2	41.2	2.53	2.69	2.76
Office, computing, and accounting machines	100.23	113.15	116.40	40.7	40.7	40.7	2.61	2.78	2.86
Service-industry machines	93.43	100.12	103.12	40.1	40.7	40.6	2.33	2.46	2.54
Electrical equipment and supplies									
Electric distribution equipment	90.74	97.44	99.38	39.8	40.6	40.4	2.28	2.40	2.46
Electrical industrial apparatus	98.17	102.87	107.04	40.4	40.5	40.7	2.43	2.54	2.63
Household appliances	95.04	102.00	104.70	40.1	40.8	40.9	2.37	2.50	2.56
Electric lighting and wiring equipment	96.23	104.23	108.12	39.6	40.4	40.8	2.43	2.58	2.65
Radio and TV receiving sets	84.71	90.85	93.26	39.4	40.2	40.2	2.15	2.26	2.32
97.93	85.75	85.85	38.8	39.7	39.2	2.06	2.16	2.19	
Communication equipment	98.58	106.97	106.92	40.4	41.3	40.5	2.44	2.59	2.64
Electronic components and accessories	76.24	82.00	82.76	39.5	40.0	39.6	1.93	2.05	2.09
Transportation equipment									
Motor vehicles and equipment	111.52	122.22	126.42	47.0	42.0	42.0	2.74	2.91	3.01
Aircraft and parts	115.21	127.67	132.68	41.0	42.7	42.8	2.81	2.99	3.10
Ship and boat building and repairing	110.43	119.97	122.43	40.9	41.8	41.5	2.70	2.87	2.95
Railroad equipment	103.75	114.97	121.06	39.3	40.2	40.9	2.64	2.88	2.96
107.20	118.10	121.71	38.7	39.0	40.3	2.77	2.96	3.0°	

See footnotes at end of table.

Labor Force, Employment, and Earnings

No. 314. PRODUCTION WORKERS—HOURS AND GROSS EARNINGS, BY INDUSTRY: 1960, 1962, AND 1963—Continued

INDUSTRY	AVERAGE WEEKLY EARNINGS			AVERAGE WEEKLY HOURS			AVERAGE HOURLY EARNINGS		
	1960		1962	1963	1960		1962	1963	1960
Manufacturing—Continued									
Durable goods—Continued									
Instruments and related products	\$83.32	\$99.80	\$101.59	40.4	40.9	40.8	\$2.31	\$2.44	\$2.40
Engineering and scientific instruments	110.95	115.04	118.53	41.4	41.3	41.3	2.68	2.80	2.87
Mechanical measuring and control devices	92.00	98.98	102.16	40.0	40.4	40.7	2.30	2.45	2.51
Optical and ophthalmic goods	81.40	89.62	93.86	40.1	41.3	41.9	2.03	2.17	2.24
Surgical, medical, and dental equipment	80.00	84.45	85.01	40.0	40.6	40.1	2.00	2.08	2.12
Photographic equipment and supplies	105.47	114.26	115.08	41.2	41.7	41.1	2.56	2.74	2.80
Watches and clocks	76.83	83.37	83.13	39.0	39.7	39.4	1.97	2.10	2.11
Miscellaneous manufacturing industries	74.28	78.21	80.39	39.3	39.7	39.6	1.89	1.97	2.03
Jewelry, silverware, and plated ware	80.40	84.82	88.70	40.2	40.2	40.5	2.00	2.11	2.19
Toys, amusement, and sporting goods	68.11	71.37	72.37	38.7	39.0	38.7	1.76	1.83	1.87
Pens, pencils, office and art materials	71.92	74.82	78.00	39.3	39.8	40.0	1.83	1.88	1.95
Costume jewelry, buttons, notions	66.13	71.68	73.45	38.9	39.6	39.7	1.70	1.81	1.85
Nondurable goods	80.36	85.54	87.91	39.2	39.6	39.6	2.05	2.16	2.22
Food and kindred products	85.68	91.02	94.48	40.8	40.9	40.9	2.10	2.24	2.31
Meat products	94.42	98.66	101.93	40.7	40.6	41.1	2.32	2.43	2.48
Dairy products	90.10	96.05	98.75	42.3	42.5	42.2	2.13	2.26	2.34
Canned and preserved food, except meats	68.71	73.53	75.45	38.6	38.7	38.3	1.78	1.90	1.97
Grain-mill products	63.92	101.92	105.02	44.3	44.7	44.5	2.12	2.28	2.36
Bakery products	84.00	91.30	93.90	40.0	40.4	40.3	2.10	2.26	2.33
Sugar	93.93	97.75	100.74	44.1	42.5	41.8	2.13	2.30	2.41
Confectionery and related products	69.34	76.61	78.80	39.4	39.9	39.8	1.76	1.92	1.98
Beverages	90.72	103.31	107.18	40.3	40.2	40.6	2.40	2.57	2.64
Tobacco manufactures	64.94	71.41	73.73	38.2	38.6	38.6	1.70	1.85	1.91
Cigarettes	80.29	89.54	92.20	38.6	39.1	39.4	2.08	2.20	2.34
Cigars	53.86	57.82	60.64	37.4	37.5	37.9	1.44	1.55	1.60
Textile-mill products	63.60	68.21	69.43	39.5	40.6	40.6	1.61	1.68	1.71
Cotton broad woven fabrics	62.56	66.75	68.30	40.1	40.7	40.9	1.56	1.64	1.67
Silk and synthetic broad woven fabrics	63.31	73.44	74.65	41.4	42.7	42.9	1.65	1.72	1.74
Weaving and finishing broad woolens	69.83	77.17	75.40	40.6	42.4	41.2	1.72	1.82	1.83
Narrow fabrics and small wares	66.07	70.93	71.34	39.8	41.0	41.0	1.66	1.73	1.74
Knitting	56.93	61.44	62.65	37.7	38.4	38.2	1.51	1.60	1.64
Finishing textiles, except wool and knit	71.73	78.07	79.76	40.3	42.2	42.2	1.78	1.85	1.89
Floor covering	70.22	73.04	75.18	39.0	41.5	42.0	1.76	1.76	1.79
Yarn and thread	58.05	62.22	63.59	38.7	40.4	40.5	1.50	1.54	1.57
Apparel and related products	56.29	61.18	62.09	35.4	36.2	36.1	1.59	1.69	1.72
Men's and boys' suits and coats	68.27	72.54	74.87	36.9	37.2	36.7	1.85	1.95	2.04
Men's and boys' furnishings and work-clothing	48.55	53.53	54.31	36.5	37.7	37.2	1.33	1.42	1.46
Women's, misses', and juniors' outerwear	58.76	64.46	65.32	33.2	34.1	34.2	1.77	1.89	1.91
Women's, children's undergarments	51.91	55.48	57.41	35.8	38.5	36.8	1.45	1.52	1.56
Hats, caps, and millinery	60.54	65.62	65.69	35.2	36.2	35.7	1.72	1.81	1.84
Girls' and children's outerwear	51.54	54.72	55.80	35.3	36.0	36.0	1.46	1.52	1.55
Fur goods and misc. apparel	59.81	64.98	65.16	35.6	36.1	36.0	1.68	1.80	1.81
Paper and allied products	95.15	102.00	105.90	42.1	42.5	42.7	2.26	2.40	2.48
Paper and pulp	105.46	112.92	117.75	43.4	43.6	44.1	2.43	2.59	2.67
Paperboard	105.16	114.22	118.90	43.1	44.1	44.2	2.44	2.59	2.69
Converted paper and paperboard products	83.23	90.64	93.79	40.8	41.2	41.5	2.04	2.20	2.26
Paperboard containers and boxes	86.81	94.24	96.28	41.1	41.7	41.5	2.10	2.26	2.32
Printing, publishing, and allied industries	102.91	107.62	110.30	38.4	38.3	38.3	2.08	2.81	2.88
Newspapers	105.70	110.35	112.53	36.7	36.3	36.3	2.88	3.04	3.10
Periodicals	109.18	111.95	115.42	39.7	39.7	39.8	2.75	2.82	2.90
Books	95.82	99.85	104.49	40.6	40.1	40.5	2.36	2.49	2.58
Commercial printing	103.88	110.15	112.61	39.2	39.2	39.1	2.05	2.81	2.88
Bookbinding and related industries	78.87	85.91	88.01	38.1	38.7	38.6	2.07	2.22	2.28
Chemicals and allied products	103.25	109.98	112.88	41.3	41.5	41.5	2.50	2.65	2.72
Industrial chemicals	117.31	124.68	128.44	41.6	41.7	41.7	2.82	2.99	3.08
Plastics and synthetics, except glass	104.17	109.52	112.32	41.5	41.8	41.6	2.51	2.62	2.70
Drugs	90.68	98.40	100.53	40.3	41.0	40.7	2.25	2.40	2.47
Soap, cleaners, and toilet goods	95.41	103.89	106.08	40.6	40.9	40.8	2.35	2.54	2.60
Paints, varnishes, and allied products	95.24	101.59	105.22	40.7	40.8	41.1	2.34	2.49	2.56
Agricultural chemicals	82.80	88.39	93.53	42.9	42.7	43.5	1.93	2.07	2.15
Petroleum refining and related industries	118.78	126.88	131.77	41.1	41.6	41.7	2.89	3.05	3.16
Petroleum refining	123.22	131.43	137.45	40.8	41.2	41.4	3.02	3.19	3.32
Rubber and miscellaneous plastic products	92.57	100.04	100.78	39.9	41.0	40.8	2.32	2.44	2.47
Tires and inner tubes	116.62	130.47	131.30	39.4	40.9	40.4	2.98	3.19	3.26
Leather and leather products	60.52	64.67	66.00	36.9	37.6	37.5	1.64	1.72	1.76
Leather; tanning and finishing	81.74	87.42	91.13	39.3	40.1	40.5	2.08	2.18	2.25
Footwear (except rubber)	58.04	62.66	63.44	36.5	37.3	37.1	1.59	1.68	1.71

Hours and Earnings

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No. 314. PRODUCTION WORKERS—HOURS AND GROSS EARNINGS, BY INDUSTRY: 1960, 1962, AND 1963—Continued

INDUSTRY	AVERAGE WEEKLY EARNINGS			AVERAGE WEEKLY HOURS			AVERAGE HOURLY EARNINGS		
	1960	1962	1963	1960	1962	1963	1960	1962	1963
Transportation and public utilities:									
Class I railroads	\$108.84	\$115.87	\$118.40	41.7	42.6	42.9	\$2.61	\$2.72	\$2.76
Local and interurban passenger transit:									
Local and suburban transportation	95.25	100.11	101.70	43.1	42.6	42.2	2.21	2.35	2.41
Intercity and rural bus lines	104.37	118.40	125.86	42.6	42.9	43.7	2.45	2.76	2.88
Motor freight transportation and storage	104.17	113.30	117.31	41.5	41.5	41.6	2.61	2.73	2.82
Pipeline transportation	124.53	132.76	138.38	40.3	40.6	40.7	3.09	3.27	3.40
Telephone communication	89.50	98.95	102.40	39.6	39.9	40.0	2.26	2.48	2.56
Telegraph communication ³	100.01	107.78	110.92	42.2	42.1	41.7	2.37	2.58	2.66
Radio and television broadcasting	121.13	127.20	133.98	38.7	38.9	39.4	3.13	3.27	3.40
Electric, gas, and sanitary services	108.65	116.85	121.13	41.0	41.0	41.2	2.65	2.85	2.94
Trade (except eating and drinking places):									
Wholesale trade	70.77	75.08	77.59	39.1	38.7	38.6	1.81	1.94	2.01
Retail trade	90.72	96.22	99.47	40.5	40.6	40.6	2.24	2.37	2.45
General merchandise stores	62.37	65.95	68.04	38.5	37.9	37.8	1.62	1.74	1.80
Food stores	49.07	52.59	54.13	34.8	34.6	34.7	1.41	1.52	1.56
Apparel and accessories stores	60.98	64.78	66.15	36.3	35.4	35.0	1.68	1.83	1.89
Furniture and appliance stores	50.81	53.63	54.70	34.8	34.6	34.4	1.46	1.55	1.59
Finance, insurance, and real estate:									
Banking	67.15	71.80	74.97	37.1	37.2	37.3	1.81	1.93	2.01
Security dealers and exchanges	117.13	116.95	121.53	-	-	-	-	-	-
Insurance carriers	87.37	93.46	96.28	-	-	-	-	-	-
Service and miscellaneous:									
Hotels, tourist courts, and motels ⁴	43.49	46.14	47.58	39.9	39.1	39.0	1.09	1.18	1.22
Laundries, cleaning and dyeing plants	48.11	50.57	51.87	38.8	38.9	39.0	1.24	1.30	1.33
Motion picture filming and distributing	115.02	122.27	129.68	-	-	-	-	-	-

¹11-month average. ²8-month average. ³Excludes messengers.

⁴Money payments only; additional value of board, room, uniforms, and tips excluded.

Source: Dept. of Labor, Bureau of Labor Statistics; *Employment and Earnings*.

No. 315. HOURLY AND WEEKLY EARNINGS IN CURRENT AND 1963 PRICES, SELECTED INDUSTRIES: 1940 TO 1963

[Beginning 1959, includes Alaska and Hawaii. Includes overtime. Data are for production workers in manufacturing, construction workers in contract construction, and nonsupervisory employees in retail trade]

TYPE OF EARNINGS AND YEAR	MANUFACTURING						CONTRACT CONSTRUCTION		RETAIL TRADE	
	Total		Durable		Nondurable					
	Current prices	1963 prices ¹	Current prices	1963 prices ¹	Current prices	1963 prices ¹	Current prices	1963 prices ¹	Current prices	1963 prices ¹
HOURLY										
1940	\$0.66	\$1.43	\$0.72	\$1.57	\$0.59	\$1.29	n.a.	n.a.	\$0.49	\$1.08
1945	1.02	1.73	1.10	1.87	.59	1.51	n.a.	n.a.	.70	1.19
1950	1.44	1.83	1.52	1.94	1.35	1.72	\$1.86	\$2.37	1.05	1.34
1955	1.86	2.13	1.99	2.28	1.67	1.91	2.45	2.80	1.34	1.53
1957	2.05	2.23	2.19	2.39	1.85	2.02	2.71	2.95	1.47	1.60
1958	2.11	2.24	2.26	2.39	1.91	2.02	2.82	2.99	1.52	1.61
1959	2.19	2.30	2.36	2.48	1.98	2.08	2.93	3.08	1.57	1.65
1960	2.26	2.34	2.43	2.52	2.05	2.12	3.08	3.19	1.62	1.68
1961	2.32	2.37	2.49	2.55	2.11	2.16	3.20	3.28	1.68	1.72
1962	2.39	2.42	2.56	2.59	2.16	2.19	3.31	3.35	1.74	1.76
1963	2.46	2.46	2.63	2.63	2.22	2.22	3.42	3.42	1.80	1.80
WEEKLY										
1940	24.96	54.62	28.07	61.42	21.83	47.77	n.a.	n.a.	21.34	46.70
1945	44.20	75.17	48.36	82.24	37.48	63.74	n.a.	n.a.	28.59	48.62
1950	58.32	74.29	62.43	79.53	55.48	68.13	69.68	88.76	43.16	54.98
1955	75.70	86.61	82.19	94.04	66.03	76.24	104.00	104.00	53.06	60.71
1957	81.59	88.88	88.26	96.14	72.52	79.00	100.27	109.23	56.89	61.97
1958	82.71	87.62	89.27	94.57	74.11	78.51	103.78	109.94	58.82	62.31
1959	88.26	92.81	96.05	101.00	78.01	82.66	108.41	114.00	60.76	63.89
1960	89.72	92.88	97.44	100.87	80.36	83.19	113.04	117.02	62.37	64.57
1961	92.34	94.51	100.35	102.71	82.92	84.57	118.08	120.86	64.01	65.52
1962	96.56	97.73	104.70	105.97	85.54	86.58	122.47	123.96	65.95	66.75
1963	99.38	99.38	108.09	108.09	87.91	87.91	127.22	127.22	68.04	68.04

n.a. Not available.

¹Earnings in current prices divided by consumer price index on base 1963=100.

Source: Executive Office of the President, Council of Economic Advisers. Based on Dept. of Labor data.

Labor Force, Employment, and Earnings

No. 316. PRODUCTION WORKERS, MANUFACTURING INDUSTRIES—HOURS AND GROSS EARNINGS, BY STATES: 1960, 1962, AND 1963

STATE	AVERAGE WEEKLY EARNINGS			AVERAGE WEEKLY HOURS			AVERAGE HOURLY EARNINGS		
	1960	1962	1963	1960	1962	1963	1960	1962	1963
United States ¹	\$89.72	\$96.56	\$99.38	39.7	40.4	40.4	\$2.26	\$2.39	\$2.46
New England:									
Maine	71.15	76.73	70.56	40.2	40.6	40.8	1.77	1.89	1.95
New Hampshire	70.45	76.33	77.59	39.8	40.6	40.2	1.77	1.88	1.93
Vermont	76.59	82.12	83.22	41.4	41.9	41.2	1.85	1.96	2.02
Massachusetts	81.96	89.16	91.16	39.2	39.8	39.7	2.09	2.24	2.29
Rhode Island	73.70	82.42	83.22	39.2	40.4	40.4	1.88	2.04	2.06
Connecticut	93.26	101.35	104.90	40.2	41.2	41.3	2.32	2.46	2.54
Middle Atlantic:									
New York	89.61	96.02	98.78	38.8	39.3	39.2	2.31	2.44	2.52
New Jersey	93.93	101.66	104.90	39.6	40.5	40.5	2.37	2.51	2.59
Pennsylvania	89.86	94.95	98.21	38.9	39.4	39.6	2.31	2.41	2.48
East North Central:									
Ohio	104.13	112.59	116.13	40.0	40.8	41.1	2.60	2.76	2.83
Indiana	100.49	108.29	112.01	40.0	40.9	41.0	2.51	2.65	2.73
Illinois	97.70	105.27	108.71	40.0	40.6	40.7	2.45	2.60	2.67
Michigan	112.00	121.43	128.27	40.8	41.8	42.5	2.75	2.91	3.02
Wisconsin	96.32	103.86	106.41	40.6	41.4	41.3	2.37	2.51	2.58
West North Central:									
Minnesota	95.07	102.35	104.58	40.4	40.5	40.8	2.36	2.52	2.56
Iowa	93.68	100.83	105.47	39.8	39.9	40.3	2.35	2.53	2.62
Missouri	87.57	94.52	98.41	39.1	39.7	39.9	2.24	2.38	2.46
North Dakota	81.85	88.20	101.08	41.4	41.3	42.3	1.97	2.13	2.39
South Dakota	90.90	97.37	101.70	45.0	45.1	45.4	2.02	2.17	2.24
Nebraska	87.41	94.26	97.95	42.0	42.8	42.9	2.08	2.20	2.28
Kansas	95.82	105.54	107.54	40.6	41.8	41.8	2.36	2.52	2.57
South Atlantic:									
Delaware	91.01	98.33	104.80	39.4	40.8	40.9	2.31	2.41	2.55
Maryland	90.63	96.48	100.44	40.1	40.2	40.5	2.26	2.40	2.48
District of Columbia ²	97.61	104.94	110.00	39.2	39.9	36.6	2.49	2.63	2.78
Virginia	70.62	78.31	80.16	39.9	41.0	40.9	1.77	1.91	1.96
West Virginia	93.27	101.29	104.40	38.7	39.7	40.0	2.41	2.55	2.61
North Carolina	61.14	66.91	68.38	39.7	40.8	40.7	1.54	1.64	1.68
South Carolina	63.27	69.22	70.11	40.3	41.2	41.0	1.57	1.68	1.71
Georgia	65.40	70.79	73.38	39.4	40.1	40.1	1.66	1.77	1.83
Florida	76.07	82.19	85.28	40.9	41.3	41.4	1.86	1.99	2.06
East South Central:									
Kentucky	83.92	91.03	94.77	39.4	40.1	40.5	2.13	2.27	2.34
Tennessee	73.23	78.16	79.58	39.8	40.5	40.6	1.84	1.93	1.96
Alabama	75.65	82.61	85.46	39.4	40.1	40.5	1.92	2.06	2.11
Mississippi	60.50	65.27	68.28	39.8	39.8	40.4	1.52	1.64	1.69
West South Central:									
Arkansas	62.71	66.23	69.83	40.2	39.9	40.6	1.56	1.66	1.72
Louisiana	86.71	96.14	100.62	40.9	41.8	42.1	2.12	2.30	2.39
Oklahoma	85.47	90.23	93.75	40.7	41.2	41.3	2.10	2.19	2.27
Texas	89.19	96.05	97.29	41.1	41.4	41.4	2.17	2.32	2.35
Mountain:									
Montana	96.04	103.20	106.00	39.2	40.0	39.7	2.45	2.58	2.67
Idaho	90.00	92.66	96.66	40.0	39.6	40.4	2.25	2.34	2.39
Wyoming	95.25	96.83	102.49	37.5	37.1	38.1	2.54	2.61	2.69
Colorado	98.25	106.75	109.34	40.6	40.9	40.8	2.42	2.61	2.68
New Mexico	82.88	88.88	92.84	39.7	40.4	40.9	2.08	2.20	2.27
Arizona	99.14	102.80	107.87	40.3	40.0	40.4	2.46	2.57	2.67
Utah	98.89	106.67	109.21	40.2	40.1	40.3	2.46	2.66	2.71
Nevada	113.30	121.60	123.78	41.2	40.0	39.8	2.75	3.04	3.11
Pacific:									
Washington	101.78	110.71	112.50	38.7	39.4	39.2	2.63	2.81	2.87
Oregon	97.04	103.22	106.90	38.1	39.1	39.3	2.55	2.64	2.72
California	104.28	112.44	115.78	39.8	40.3	40.2	2.62	2.70	2.88
Alaska	n.a.	145.88	145.68	n.a.	41.8	43.1	n.a.	3.49	3.38
Hawaii	n.a.	72.57	77.52	n.a.	37.6	38.0	n.a.	1.93	2.04

n.a. Not available.

¹ For 1960, Alaska and Hawaii included in U.S. averages but individual State data not available.² Represents Washington, D.C., Standard Metropolitan Statistical Area.Source: Dept. of Labor, Bureau of Labor Statistics; *Employment and Earnings*.

No. 317. PRODUCTION WORKERS, MANUFACTURING INDUSTRIES—PERCENT DISTRIBUTION BY AVERAGE HOURLY EARNINGS, BY REGIONS: 1954 AND 1958
 [Excludes premium pay for overtime and for work on weekends, holidays, and late shifts. For composition of regions, see fig. I, p. XII, except that U.S. and West exclude Alaska and Hawaii]

AVERAGE HOURLY EARNINGS	UNITED STATES		NORTHEAST		SOUTH		NORTH CENTRAL		WEST	
	Workers	Cumulative workers	Workers	Cumulative workers	Workers	Cumulative workers	Workers	Cumulative workers	Workers	Cumulative workers
April 1954										
Under \$1.00	10.2	10.2	8.0	8.0	28.2	28.2	4.1	4.1	1.8	1.8
\$1.00 to \$1.09	5.1	15.3	5.2	13.2	10.4	38.6	2.8	6.9	1.6	3.4
\$1.10 to \$1.19	4.7	20.0	5.4	18.6	8.0	46.6	2.9	9.8	1.6	4.9
\$1.20 to \$1.29	5.3	25.4	6.5	25.1	7.0	53.6	3.8	13.6	3.1	8.0
\$1.30 to \$1.39	5.7	31.1	7.0	32.1	6.1	59.8	4.7	18.4	3.2	11.2
\$1.40 to \$1.49	6.0	37.1	7.8	39.9	5.5	65.3	5.2	23.6	3.4	14.5
\$1.50 to \$1.59	7.5	44.6	8.7	48.6	5.9	71.2	7.9	31.5	5.1	19.6
\$1.60 to \$1.69	8.0	52.5	8.4	56.9	4.8	76.1	9.4	40.9	7.6	27.2
\$1.70 to \$1.79	7.6	60.2	7.8	64.7	4.1	80.2	9.1	50.1	8.7	35.9
\$1.80 to \$1.89	7.5	67.6	6.9	71.6	3.8	84.0	9.1	59.2	12.1	48.0
\$1.90 to \$1.99	7.5	75.2	5.8	77.3	3.3	87.4	10.0	70.1	11.0	50.0
\$2.00 to \$2.19	10.7	85.9	9.0	86.3	5.6	92.9	13.7	83.7	18.0	77.0
\$2.20 to \$2.39	6.1	91.9	5.4	91.7	3.5	96.4	6.9	90.7	10.5	87.5
\$2.40 to \$2.59	3.6	95.5	3.3	95.0	1.9	98.3	4.2	94.9	5.6	93.2
\$2.60 to \$2.79	1.8	97.3	1.8	96.8	0.8	99.1	2.2	97.1	2.6	95.8
\$2.80 to \$2.99	1.0	98.3	1.1	97.9	0.4	99.5	1.2	98.3	1.4	97.3
\$3.00 and over	1.7	100.0	2.1	100.0	0.5	100.0	1.7	100.0	2.7	100.0
May 1958										
Number of workers										
Average hourly earnings	1,000..	11,245	11,245	3,994	3,994	2,422	2,422	3,772	3,772	1,056
Average hourly earnings	\$1.97	\$1.97	\$1.97	\$1.94	\$1.94	\$1.63	\$1.63	\$2.13	\$2.13	\$2.26
Under \$1.00	0.3	0.3	0.1	0.1	0.9	0.9	0.2	0.2	0.1	0.1
\$1.00 to \$1.09	7.6	7.9	5.4	5.5	20.8	21.7	3.0	3.2	2.1	2.2
\$1.10 to \$1.19	5.3	13.2	5.4	10.9	10.8	32.5	2.6	5.9	1.1	3.4
\$1.20 to \$1.29	5.5	18.6	6.2	17.1	9.6	42.1	2.9	8.8	1.8	5.2
\$1.30 to \$1.39	4.3	22.9	5.5	22.6	6.2	48.3	2.7	11.4	1.7	6.9
\$1.40 to \$1.49	4.1	27.0	4.9	27.5	4.9	53.3	3.3	14.7	1.9	8.8
\$1.50 to \$1.59	4.8	31.8	6.1	33.6	4.9	58.2	3.9	18.6	2.9	11.6
\$1.60 to \$1.69	4.7	36.5	5.6	39.2	4.4	62.6	4.5	23.1	3.0	14.7
\$1.70 to \$1.79	5.1	41.7	6.1	45.3	4.4	66.9	5.0	28.1	3.7	18.4
\$1.80 to \$1.89	5.2	46.9	5.7	51.0	3.3	70.2	6.1	34.2	4.5	22.9
\$1.90 to \$1.99	5.0	51.8	5.2	56.2	3.2	73.4	5.7	39.8	5.0	28.8
\$2.00 to \$2.19	11.8	63.7	11.5	67.8	5.6	79.1	14.6	54.4	17.8	46.6
\$2.20 to \$2.39	11.7	75.4	10.1	77.8	6.0	85.1	16.1	70.5	15.3	61.9
\$2.40 to \$2.59	8.5	84.0	7.8	85.6	4.9	90.0	10.5	81.0	12.8	74.7
\$2.60 to \$2.79	6.1	90.0	5.4	91.1	3.5	93.5	6.9	87.8	11.3	86.0
\$2.80 to \$2.99	4.2	94.3	3.7	94.7	3.2	96.7	5.3	93.0	5.5	91.4
\$3.00 and over	5.7	100.0	5.3	100.0	3.3	100.0	7.0	100.0	8.6	100.0

Source: Dept. of Labor, Bureau of Labor Statistics; *Factory Workers' Earnings: Distribution by Straight-Time Hourly Earnings, April 1964* (Bulletin No. 1178), and *Factory Workers' Earnings, May 1968* (Bulletin No. 1262).

No. 318. PERCENT OF WORKERS EMPLOYED IN ESTABLISHMENTS HAVING FORMAL PROVISIONS FOR SELECTED SUPPLEMENTARY WAGE BENEFITS, 212 SMSA'S: 1963
 [Surveys relate geographically to the 212 standard metropolitan statistical areas in the United States, including Alaska and Hawaii, as established by the Bureau of the Budget through 1961. Based on occupational wage surveys conducted in 80 areas, selected to represent the 212 areas. Information on establishment practices is obtained annually in 6 of the largest areas. In the other areas, it is obtained biennially in a rotating cycle. Data for a majority of the workers relate to late 1962 and early 1963; for the remainder, to late 1961 and early 1962. Data obtained from sample of establishments which employ 50 workers or more, except in 12 of the largest areas where the minimum size was 100 employees for manufacturing, public utilities, and retail trade; see source. Excludes data for government institutions, and construction and extractive industries. Excludes administrative, executive, and professional employees]

TYPE OF BENEFIT	Office workers	Plant workers	TYPE OF BENEFIT	Office workers	Plant workers
Paid holidays: ¹			Paid vacations ² —Con.		
Under 6 days	5	12	4 weeks or more	n.a.	n.a.
6 or more days	95	88	After 20 years of service	19	16
7 or more days	77	69	After 25 years of service	45	34
8 or more days	47	29	Health, insurance, and pension plans:		
9 or more days	26	9	Life insurance	96	92
11 or more days	13	2	Hospitalization	86	88
12 or more days	4	1	Surgical	85	87
Paid vacations: ²			Medical	60	65
2 weeks or more	n.a.	n.a.	Catastrophe	61	30
After 1 year of service	77	22	Sickness and accident insurance	40	63
After 5 years of service	99	94	Sick leave (full pay and no waiting period)	60	16
3 weeks or more	n.a.	n.a.	Sick leave (partial pay and/or waiting period)	7	11
After 5 years of service	9	7	Retirement pension ³	78	69
After 10 years of service	48	36			
After 15 years of service	86	76			

¹ n.a. Not available. ² Relates to holidays provided annually. Represents half-day and full-day holidays combined. ³ Such payments as percentages of annual earning or flat-sum payments were converted to an equivalent time basis. ³ Includes retirement-type profit-sharing plans.

Source: Dept. of Labor, Bureau of Labor Statistics; *Wages and Related Benefits: All Metropolitan Areas, United States and Regional Summaries, 1962-63* (Bulletin No. 1345-83, Part Two).

Labor Force, Employment, and Earnings

No. 319. AVERAGE EMPLOYER EXPENDITURES FOR SELECTED SUPPLEMENTARY REMUNERATION PRACTICES FOR PRODUCTION WORKERS IN MANUFACTURING INDUSTRIES, BY REGIONS: 1959

[Data based on a sample survey and cover all manufacturing establishments having 1 or more paid employees.
For composition of regions, see fig. I, p. XII]

REMUNERATION PRACTICE	PERCENT OF GROSS PAYROLL					CENTS PER HOUR PAID				
	United States	North east	North Central	South	West	United States	North- east	North Central	South	West
Paid leave ¹	6.0	6.3	6.2	5.0	5.8	13.5	14.0	15.3	9.2	14.5
Vacations.....	3.6	3.6	3.8	3.2	3.2	8.0	8.0	9.4	5.8	8.1
Sick leave.....	0.2	0.2	0.2	0.3	0.4	.5	.6	.4	.5	1.0
Holidays.....	2.1	2.4	2.2	1.6	2.1	4.8	5.3	5.4	2.9	5.2
Premium pay.....	4.3	4.1	4.5	4.5	4.2	9.7	9.2	11.0	8.2	10.5
Daily overtime, weekly overtime, and weekend work.....	2.6	2.7	2.4	3.1	2.6	5.9	5.9	5.8	5.7	6.5
Holiday work.....	0.1	0.1	0.1	0.2	0.2	.2	.2	.2	.3	.4
Shift differential.....	0.9	0.8	1.0	0.7	0.8	1.9	1.8	2.5	1.3	2.1
Premiums not reported separately.....	0.7	0.6	1.0	0.5	0.6	1.7	1.3	2.6	.8	1.5
Legally required payments ¹	4.5	4.8	4.0	4.5	5.0	10.1	10.7	9.9	8.2	12.6
Old-age, survivors, and disability insurance (social security).....	2.2	2.2	2.1	2.2	2.2	4.9	4.8	5.2	4.1	5.4
Unemployment compensation.....	1.4	1.7	1.2	1.4	1.6	3.2	3.7	3.0	2.5	4.1
Workmen's compensation.....	0.8	0.8	0.7	0.8	1.2	1.9	1.9	1.7	1.5	2.9
Private welfare plans ¹	5.4	5.5	5.8	4.8	4.4	12.1	12.2	14.3	8.9	11.1
Health, accident, and life insurance.....	2.1	2.0	2.4	1.7	2.1	4.7	4.4	5.8	3.0	5.3
Pension and retirement plans.....	2.4	2.3	2.7	2.2	1.7	5.4	5.2	6.6	4.1	4.4
Supplemental unemployment benefits.....	0.1	0.2	0.2	0.1	0.1	.3	.3	.4	.2	.2
Savings and thrift plans.....	0.1	0.1	(2)	0.2	0.1	.1	.1	.1	.3	.2
Yearend and Christmas bonuses.....	0.5	0.6	0.4	0.5	0.3	1.1	1.3	1.0	.9	.8
Plans not reported separately.....	0.2	0.3	0.1	0.1	(2)	.4	.6	.3	.3	.1

¹ Totals include amounts for practices not shown separately.

² Less than 0.05 percent.

Source: Dept. of Labor, Bureau of Labor Statistics; *Employer Expenditures for Selected Supplementary Remuneration Practices for Production Workers in Manufacturing Industries, 1959* (Bulletin No. 1308).

No. 320. FARM EMPLOYMENT AND WAGE RATES: 1950 TO 1964

[Excludes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1957*, series K 73, K 75, K 76 (for indexes on 1910-14 base), and K 77-80]

YEAR OR MONTH	EMPLOYMENT ¹ (1,000)			WAGE RATES ⁴				Index of farm wage rates (1957-59 = 100)	
	Total	Family ²	Hired ³	Per month		Per day			
				With board and room	With house	With board and room	Without board or room		
1950.....	9,926	7,597	2,320	\$99	\$121	\$4.45	\$4.50	74	
1952.....	9,149	7,005	2,144	119	146	5.30	5.30	87	
1953.....	8,864	6,775	2,089	122	151	5.40	5.30	88	
1954.....	8,651	6,570	2,081	120	151	5.30	5.30	87	
1955.....	8,381	6,345	2,036	123	154	5.40	5.30	89	
1956.....	7,852	5,900	1,952	128	161	5.60	5.60	93	
1957.....	7,600	5,660	1,940	133	168	5.80	5.80	96	
1958.....	7,503	5,521	1,982	137	176	6.10	6.00	99	
1959.....	7,342	5,390	1,952	144	186	6.30	6.40	105	
1960.....	7,057	5,172	1,885	149	192	6.50	6.60	107	
1961.....	6,919	5,029	1,890	151	195	6.50	6.60	110	
1962.....	6,700	4,873	1,827	155	200	6.70	6.90	112	
1963.....	6,518	4,738	1,780	159	206	6.90	7.10	116	
April.....	6,395	4,653	1,542	154	199	6.30	6.80	117	
1964, April.....	6,098	4,680	1,418	158	206	6.50	7.10	121	

¹ Data are arithmetic means of monthly estimates of persons employed during last full calendar week in each month.

² Includes farm operators doing 1 or more hours of farm work and members of their families doing 15 hours or more of unpaid farm work during survey week.

³ Includes all persons doing 1 or more hours of farm work for cash wages during survey week. Members of operators' families doing any farm work for cash wages are counted as hired workers.

⁴ Weighted averages of wage rates as reported quarterly by crop reporters.

Source: Dept. of Agriculture, Statistical Reporting Service; monthly report, *Farm Labor*.

Farm Employment

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No. 321. FARM EMPLOYMENT, BY GEOGRAPHIC DIVISIONS: 1940 TO 1963

[In thousands. Excludes Alaska and Hawaii. Annual average number of persons employed during last full calendar week of each month]

GEOGRAPHIC DIVISION ¹	1940	1945	1950	1955	1959	1960	1961	1962	1963
Total workers²	10,979	10,000	9,926	8,381	7,342	7,057	6,919	6,700	6,519
New England	235	225	219	188	145	137	132	126	124
Middle Atlantic	679	626	616	502	422	402	387	365	344
East North Central	1,004	1,471	1,568	1,424	1,253	1,204	1,175	1,145	1,114
West North Central	1,804	1,744	1,779	1,537	1,373	1,338	1,310	1,266	1,250
South Atlantic	2,110	1,880	1,812	1,509	1,301	1,238	1,222	1,166	1,144
East South Central	1,780	1,545	1,432	1,098	938	888	857	824	819
West South Central	1,662	1,397	1,407	1,140	978	940	934	903	868
Mountain	474	446	418	365	337	332	322	315	305
Pacific	631	666	675	612	595	583	580	560	542
Hired workers³	2,679	2,119	2,329	2,036	1,952	1,885	1,890	1,827	1,783
New England	75	65	71	60	48	46	44	42	43
Middle Atlantic	207	174	185	137	119	111	106	100	98
East North Central	319	214	237	206	187	182	182	177	177
West North Central	315	241	275	216	203	195	188	198	184
South Atlantic	488	358	417	395	399	381	387	370	378
East South Central	297	216	240	216	216	208	210	201	205
West South Central	504	375	423	362	349	339	356	344	320
Mountain	183	164	151	134	128	126	119	112	111
Pacific	201	312	330	301	303	297	298	288	272

¹ See table 316 for States comprising each division.

² Includes operators and unpaid family members.

³ Includes all persons doing one or more hours of farm work for pay during survey week. Members of operators' families doing any farm work for cash wages are counted as hired workers.

Source: Dept. of Agriculture, Statistical Reporting Service. In annual report, *Agricultural Statistics*.

No. 322. FARM WAGE WORKERS—AVERAGE NUMBER OF DAYS WORKED AND AVERAGE CASH WAGES EARNED AT FARM AND NONFARM WAGE WORK, BY SELECTED CHARACTERISTICS: 1962

[Includes Alaska and Hawaii]

ITEM	TOTAL			FARM		NONFARM	
	Number of workers (1,000)	Days worked	Wages earned		Days worked	Wages earned	
			Per year	Per day worked ¹		Per year	Per day worked ¹
Total	3,622	115	\$896	\$7.80	81	\$549	\$6.80
25 days or more	2,067	160	1,164	7.25	134	913	6.80
Migratory ²	288	141	1,123	8.00	116	874	7.50
Nonmigratory	1,770	163	1,170	7.15	137	919	6.70
Male	1,576	183	1,413	7.75	154	1,105	7.20
Female	492	89	365	4.15	73	295	4.05
White	1,398	175	1,309	8.00	145	1,083	7.45
Nonwhite	609	130	671	5.15	111	556	5.00
Household status:							
Household heads	1,018	205	1,767	8.00	174	1,303	8.00
Other members	1,050	117	579	4.95	96	447	4.65
Less than 25 days	1,555	55	540	9.80	10	65	6.45
Migratory ²	92	55	522	9.55	11	68	6.30
Nonmigratory	1,463	55	541	9.85	10	65	6.45
Male	976	68	760	11.15	10	76	7.55
Female	579	33	169	5.20	10	46	4.60
Household heads	471	100	1,308	13.20	10	96	10.00
Other members	1,084	35	205	5.75	10	51	5.00

¹ Rounded to the nearest 5 cents.

² Represents farm workers who left their homes temporarily to work in another county or counties.

Source: Dept. of Agriculture, Economic Research Service; *The Hired Farm Working Force of 1962*.

Labor Force, Employment, and Earnings

No. 323. FARM WORKERS COVERED BY OLD-AGE, SURVIVORS, AND DISABILITY INSURANCE—TAXABLE EARNINGS: 1955 to 1962

[Includes Alaska, Hawaii, Puerto Rico, and Virgin Islands. Based on earnings reports filed under the farm coverage provisions of the Social Security Act]

ITEM	1955	1957	1958	1959	1960	1961	1962
Hired Farm Workers¹							
Number	1,000	1,920	1,880	1,880	1,890	1,910	1,940
Taxable wages	mil. dol.	1,530	1,690	1,750	1,880	1,970	2,050
Average per worker		\$795	\$906	\$930	\$995	\$1,030	\$1,055
Self-employed Farmers²							
Number	1,000	2,350	2,430	2,410	2,240	2,160	2,140
Taxable self-employment income	mil. dol.	3,890	4,480	4,740	4,400	4,330	4,570
Average per farmer		\$1,655	\$1,845	\$1,905	\$1,965	\$2,005	\$2,140

¹ For 1955, represents workers receiving at least \$100 cash farm wages; beginning 1957, at least \$150 wages, or employed 20 days or more on a time-paid basis. Maximum taxable wages: \$4,200 for 1955-1958, \$4,800 beginning 1959. Adjusted to eliminate duplication of workers reported by two or more employers.

² Represents farmers with net self-employment earnings of at least \$400.

Source: Dept. of Health, Education, and Welfare, Social Security Administration; *Social Security Farm Statistics, 1955-1959*, and unpublished data.

No. 324. FARM WAGE RATES—GEOGRAPHIC DIVISIONS: 1950 to 1963

[Excludes Alaska and Hawaii. Annual average. Some wage rates in certain geographic divisions not obtained because seldom used; U.S. rates include estimates for these divisions]

GEOGRAPHIC DIVISION ¹	1950	1955	1960	1963	GEOGRAPHIC DIVISION ¹	1950	1955	1960	1963
Per month with board, room:									
U.S.	\$99.00	\$123.00	\$149.00	\$159.00	U.S.	\$3.50	\$4.20	\$5.30	\$5.70
N.E.	95.00	127.00	154.00	183.00	S.A.	3.35	4.10	4.85	5.20
M.A.	93.00	120.00	144.00	156.00	E.S.C.	2.85	3.40	4.00	4.45
E.N.C.	94.00	121.00	142.00	152.00	W.S.C.	3.95	4.80	5.70	6.30
W.N.C.	101.00	124.00	145.00	160.00					
Mt.	124.00	151.00	173.00	181.00	Per day without board or room:				
Pac.	149.00	185.00	213.00	231.00	U.S.	4.50	5.30	6.60	7.10
Per month with house:									
U.S.	121.00	154.00	192.00	206.00	N.E.	6.40	8.30	9.70	10.60
N.E.	128.00	170.00	209.00	231.00	E.N.C.	6.20	7.70	8.90	9.40
M.A.	128.00	168.00	204.00	218.00	W.N.C.	6.00	7.60	8.80	9.30
E.N.C.	120.00	160.00	193.00	207.00	S.A.	6.70	8.00	9.30	10.00
W.N.C.	124.00	155.00	186.00	206.00	E.S.C.	3.95	4.80	5.60	5.90
Mt.	156.00	200.00	233.00	251.00	W.S.C.	3.40	4.00	4.75	5.10
Pac.	190.00	239.00	284.00	309.00	Mt.	4.55	5.40	6.30	7.00
Per week with board, room:									
U.S.	23.50	29.75	35.50	37.50	U.S.	6.60	7.80	9.10	9.90
N.E.	25.00	34.00	41.00	44.00	S.A.	.62	.74	.88	.94
M.A.	25.25	32.00	37.25	40.50	E.S.C.	.45	.56	.63	.71
Per week without board or room:									
U.S.	31.00	38.00	45.75	48.50	W.S.C.	.40	.47	.52	.57
N.E.	36.25	48.25	57.00	62.50	Pac.	.48	.58	.67	.74
M.A.	34.75	44.25	51.75	55.25		.86	1.01	1.16	1.24
Per day with board and room:									
U.S.	4.45	5.40	6.50	6.90	Per hour without board or room:				
E.N.C.	4.80	6.10	7.00	7.40	U.S.	.69	.82	.97	1.05
W.N.C.	5.30	6.60	7.50	8.10	N.E.	.85	1.03	1.16	1.27
					M.A.	.81	.98	1.11	1.17
					E.N.C.	.83	1.01	1.08	1.14
					W.N.C.	.86	.99	1.08	1.16
					S.A.	.50	.62	.72	.81
					E.S.C.	.46	.54	.62	.70
					W.S.C.	.57	.68	.76	.85
					Mt.	.82	.95	1.06	1.15
					Pac.	.92	1.09	1.23	1.32

¹ See table 316 for States comprising each division.

Source: Dept. of Agriculture, Statistical Reporting Service; monthly report, *Farm Labor*.

Hours and Earnings

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No. 325. INDEXES OF UNION WAGE RATES AND WEEKLY HOURS IN SELECTED TRADES: 1945 TO 1963

[1957-59=100. Excludes Alaska and Hawaii. As of July 1, except that 1950 data for local transit operators are as of October 1. For 1945 to 1961, covers 53 cities in printing and 52 in the other trades; for 1962, 54 cities in printing and 53 in the other trades; for 1963, 62 cities in printing and 61 in the other trades. Indexes of rates reflect changes in minimum hourly wage scales; indexes of hours reflect changes in the negotiated straight-time weekly hours. Year-to-year changes in union scales are based on comparable quotations for each individual trade weighted by membership for current year. See *Historical Statistics, Colonial Times to 1957*, series D 642-653, for printing on 1948-49 base and other trades on 1947-49 base.]

TRADE	1945	1950	1955	1957	1958	1959	1960	1961	1962	1963
Building trades:										
Rate	44.4	68.0	86.8	95.5	99.8	104.7	109.0	113.3	117.5	121.7
Hours	101.1	100.2	100.1	100.1	100.0	100.0	99.9	99.8	99.7	99.5
Journeymen:										
Rate	45.4	68.8	87.1	95.6	.099	104.5	108.6	112.8	117.1	121.3
Hours	101.2	100.2	100.1	100.1	100.0	100.0	99.9	99.8	99.7	99.5
Helpers and laborers:										
Rate	38.1	63.9	84.5	94.8	99.4	105.7	110.6	115.9	120.1	124.4
Hours	100.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9
Printing trades:										
Rate	44.2	75.1	91.0	96.7	100.0	103.3	106.3	109.7	112.0	116.2
Hours	106.2	101.3	100.7	100.3	100.0	99.7	99.6	99.4	99.3	99.2
Book and job:										
Rate	43.6	74.7	90.7	96.6	99.9	103.5	106.0	110.6	114.0	117.4
Hours	108.3	101.8	100.9	100.3	100.0	99.6	99.4	99.2	99.0	99.0
Newspaper:										
Rate	45.6	76.3	91.6	96.9	100.1	103.1	105.4	108.4	111.3	114.4
Hours	103.1	100.9	100.5	100.2	100.0	99.9	99.9	99.8	99.7	99.6
Motortruck drivers and helpers:										
Rate	41.5	64.9	86.0	95.1	100.1	104.8	109.3	113.4	117.8	121.3
Hours	112.9	105.9	101.9	100.6	100.2	99.1	98.9	98.8	98.5	98.4
Local transit operators, rate	43.6	69.2	87.6	94.9	100.6	104.4	108.4	112.5	117.1	121.5

Source: Dept. of Labor, Bureau of Labor Statistics; annual reports, *Union Wages and Hours*.

No. 326. MONTHLY LABOR TURNOVER RATES PER 100 EMPLOYEES IN MANUFACTURING INDUSTRIES: 1955 TO 1963

[Beginning 1960, includes Alaska and Hawaii. Data refer to wage and salary workers. Beginning 1959, transfers between establishments of the same firm are included in total accessions and total separations; therefore, rates for these items are not strictly comparable with prior data. For annual rates, see also *Historical Statistics, Colonial Times to 1957*, series D 779-784]

TYPE AND YEAR	Annual average	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total accessions: ¹													
1955	4.5	3.8	3.7	4.2	4.2	4.5	5.3	4.5	5.8	5.5	5.0	4.0	2.9
1960	3.8	4.0	3.5	3.3	3.4	3.0	4.7	3.9	4.9	4.8	3.5	2.9	2.3
1961	4.1	3.7	3.2	4.0	4.0	4.3	5.0	4.4	5.3	4.7	4.3	3.4	2.6
1962	4.1	4.1	3.6	3.8	4.0	4.3	5.0	4.5	5.1	4.9	3.9	3.0	2.4
1963	3.9	3.6	3.3	3.5	3.9	4.0	4.8	4.3	4.8	4.8	3.0	2.9	2.5
New hires:													
1955	3.0	2.0	2.1	2.6	2.6	3.0	3.8	3.3	4.1	3.9	3.5	2.9	2.0
1960	2.2	2.2	2.2	2.0	2.0	2.3	3.0	2.4	2.9	2.8	2.1	1.5	1.0
1961	2.2	1.5	1.4	1.6	1.8	2.1	2.9	2.5	3.1	3.0	2.7	2.0	1.4
1962	2.5	2.2	2.1	2.2	2.4	2.8	3.5	2.9	3.2	3.1	2.5	1.8	1.2
1963	2.4	1.9	1.8	2.0	2.3	2.5	3.3	2.7	3.2	3.1	2.6	1.8	1.4
Total separations: ²													
1955	3.9	3.3	2.8	3.3	3.6	3.7	4.0	4.1	4.7	5.5	4.4	3.8	3.6
1960	4.3	3.8	3.5	4.0	4.2	3.9	4.0	4.4	4.8	5.3	4.7	4.5	4.8
1961	4.0	4.7	3.9	3.8	3.4	3.5	3.6	4.1	4.2	5.1	4.2	4.0	4.0
1962	4.1	3.9	3.4	3.6	3.6	3.8	3.8	4.4	5.1	5.0	4.4	4.0	3.8
1963	3.9	4.0	3.2	3.5	3.6	3.6	3.6	4.1	4.7	4.9	4.1	3.8	3.7
Quits:													
1955	1.9	1.2	1.2	1.5	1.8	1.7	1.8	2.0	2.7	3.5	2.2	1.8	1.3
1960	1.3	1.2	1.2	1.2	1.4	1.3	1.4	1.4	1.8	2.3	1.3	0.9	0.7
1961	1.2	0.9	0.8	0.9	1.0	1.1	1.2	1.2	1.7	2.3	1.4	1.1	0.9
1962	1.4	1.1	1.1	1.2	1.3	1.5	1.5	1.4	2.1	2.4	1.5	1.1	0.8
1963	1.4	1.1	1.0	1.2	1.3	1.4	1.4	1.4	2.1	2.4	1.5	1.1	0.8
Layoffs:													
1955	1.5	1.7	1.2	1.4	1.4	1.3	1.5	1.6	1.5	1.4	1.6	1.5	1.8
1960	2.4	1.8	1.7	2.2	2.2	1.9	2.0	2.4	2.4	2.4	2.8	3.1	3.6
1961	2.2	3.2	2.6	2.3	1.9	1.8	1.8	2.3	1.8	2.1	2.0	2.2	2.6
1962	2.0	2.1	1.7	1.6	1.6	1.6	2.2	2.2	1.9	2.2	2.3	2.5	2.3
1963	1.8	2.2	1.6	1.7	1.6	1.5	1.4	2.0	1.9	1.8	1.9	2.1	2.3

¹ Includes rehires.

² Includes discharges and military and miscellaneous separations.

Source: Dept. of Labor, Bureau of Labor Statistics; *Monthly Labor Review* and *Employment and Earnings*.

**No. 327. INJURY-FREQUENCY RATES, 1950 TO 1959, AND SEVERITY MEASURES,
1959, FOR SELECTED INDUSTRIES**

[Excludes Alaska and Hawaii. Frequency rate is average number of disabling work injuries, and severity rate is average number of days disability, per one million employee-hours worked. "New series" data are on basis of Standard Industrial Classification as revised in 1957. See also *Historical Statistics, Colonial Times to 1957*, series D 785, for injury-frequency rates for manufacturing on old basis]

INDUSTRY	INJURY-FREQUENCY RATES				SEVERITY MEASURES, 1959				Average days of disability per case	Severity rate		
	Old series		New series		Percent of injuries resulting in—							
	1950	1958	1958	1959	Death	Permanent impairment	Temporary total disability					
Manufacturing												
Ordnance and accessories	14.7	10.9	11.4	12.4	0.3	5.7	94.0	57	752			
Food and kindred products	6.2	3.6	3.1	2.2	-----	5.3	94.7	25	57			
Tobacco manufactures	18.9	18.5	19.5	21.6	0.2	3.6	96.2	45	1,040			
Textile-mill products	6.8	6.8	7.8	7.9	-----	7.2	92.8	29	228			
Apparel and other finished textile prod.	11.0	9.0	9.0	9.9	0.1	5.4	94.5	51	537			
Lumber and wood prod. (exc. furniture)	6.6	5.9	6.0	6.7	-----	1.8	98.2	22	148			
Furniture and fixtures	20.1	16.0	16.1	17.9	0.2	8.4	91.4	50	895			
Paper and allied products	16.1	11.4	11.4	12.5	0.3	6.3	93.4	62	911			
Printing, publishing, and allied indus.	8.2	8.7	8.9	9.8	0.1	4.1	95.8	45	452			
Chemicals and allied products	11.1	7.9	7.5	8.0	0.6	4.1	95.3	69	647			
Petroleum refining and related industries	9.3	6.0	6.7	6.5	0.8	5.8	93.4	102	703			
Rubber products ¹	10.0	6.7	8.7	9.7	0.1	6.6	93.3	54	646			
Leather and leather products	10.8	10.9	10.9	12.0	0.1	5.2	94.7	36	422			
Stone, clay, and glass products	20.5	16.8	18.5	20.0	0.3	4.0	95.7	52	1,212			
Primary metal industries	14.8	9.9	10.0	10.8	0.5	7.4	92.1	81	1,019			
Fabricated metal products	19.0	14.3	14.5	15.2	0.3	7.8	91.9	60	951			
Machinery (exc. electrical)	13.8	9.4	9.8	10.0	0.2	7.4	92.4	52	623			
Electrical machinery	7.4	4.4	4.9	5.3	0.2	9.1	90.7	55	307			
Transportation equipment	8.3	5.5	6.0	6.4	0.7	7.5	91.8	86	590			
Instruments and related products	7.7	5.4	5.5	5.8	0.1	8.9	91.0	40	246			
Contract construction	41.0	30.9	30.9	32.1	0.7	2.6	96.7	75	2,411			
Transportation and public utilities:												
Local and interurban rail and bus ²	n.a.	13.2	13.3	10.5	0.5	1.9	97.6	64	1,065			
Trucking and warehousing	34.5	28.9	28.9	31.9	0.4	1.9	97.7	51	1,622			
Telephone communication	2.1	0.7	0.7	0.8	1.4	3.7	94.9	120	98			
Electric and gas utilities ³	13.8	6.5	5.9	6.2	1.7	5.2	93.1	162	10,096			
Water-supply systems ⁴	21.9	23.6	24.2	24.7	0.7	3.7	95.6	75	1,849			
Radio broadcasting and television	2.5	4.4	4.5	4.1	0.5	2.2	97.3	45	187			
Wholesale and retail trade	12.3	12.0	12.3	12.9	0.4	2.3	97.3	49	627			
Services:												
Hotels	16.0	11.4	11.9	13.9	0.1	1.9	98.0	31	429			
Laundries and dry cleaning	7.2	7.9	8.3	8.1	0.2	3.3	96.5	53	428			
Automobile repair shops and garages	13.0	17.0	16.9	17.3	0.4	3.3	96.3	51	876			
Motion pictures and other amusements	8.8	9.2	4.9	8.5	0.5	4.3	95.2	65	555			
Government, State and local:												
Local transit systems	n.a.	15.0	15.0	15.0	0.9	1.8	97.3	80	1,197			
Electric and gas utilities	n.a.	16.7	16.8	14.4	0.9	2.1	97.0	82	1,184			
Local fire protection	35.5	31.8	31.8	31.8	0.7	1.5	97.8	87	2,766			
Police	32.4	33.1	33.1	34.6	0.1	1.3	98.6	55	1,895			

n.a. Not available.

¹ Beginning with new basis, includes miscellaneous plastics products.

² Beginning with new basis, includes highway transportation, n.e.c.

³ For 1950, comprises both publicly and privately operated utilities; beginning 1958, private only.

Source: Dept. of Labor, Bureau of Labor Statistics. Periodically in *Monthly Labor Review*, and annual bulletin, *Work Injuries in the United States*.

Work Injuries—Union Membership

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No. 328. DISABLING WORK INJURIES, BY MAJOR INDUSTRY GROUP: 1950 TO 1963

[In thousands. Beginning 1960, includes Alaska and Hawaii. Includes employees and self-employed. Beginning 1960, data not strictly comparable with earlier years due to minor revisions in definitions]

YEAR	All industries ¹	Agricul-ture ²	Mining and quarrying ³	Con-struction ⁴	Manufacturing ⁵	Transpor-tation ²	Public utili-ties ⁴	Trade, whole-sale and retail ⁴	All other ¹
Total:									
1950.....	1,952	340	72	205	426	177	24	335	373
1960.....	1,950	287	45	210	393	6 183 (6)	360	467	
1962.....	1,990	281	44	210	403	6 189 (6)	373	490	
1963 (prel.).....	2,020	277	44	214	405	6 190 (6)	372	518	
Fatalities:									
1950.....	15.5	4.3	1.0	2.3	2.6	1.3	0.3	1.5	2.2
1960.....	13.8	3.3	0.8	2.4	1.7	6 1.6 (6)	1.2	2.8	
1962.....	13.7	3.1	0.7	2.4	1.8	6 1.7 (6)	1.2	2.8	
1963 (prel.).....	14.2	3.3	0.7	2.5	1.8	6 1.7 (6)	1.2	3.0	
Permanent impairments:									
1950.....	84.9	(7)	(7)	8.5	21.7	(7)	0.6	8.1	(7)
1960.....	82.2	(7)	(7)	5.8	25.5	(7)	(7)	8.4	(7)
1962.....	83.3	(7)	(7)	5.8	25.7	(7)	(7)	8.7	(7)
1963 (prel.).....	84.8	(7)	(7)	5.9	25.8	(7)	(7)	8.7	(7)
Temporary-total disabilities:									
1950.....	1,852	(7)	(7)	194	402	(7)	28	325	(7)
1960.....	1,884	(7)	(7)	202	371	(7)	(7)	350	(7)
1962.....	1,893	(7)	(7)	202	376	(7)	(7)	363	(7)
1963 (prel.).....	1,921	(7)	(7)	206	377	(7)	(7)	362	(7)

¹ Excludes domestic service. ² Based on fragmentary data. ³ Based largely on Bureau of Mines data.

⁴ Based on small sample surveys. ⁵ Based on comprehensive survey.

⁶ Public utilities included in transportation. ⁷ Included in totals for all industries.

Source: Dept. of Labor, Bureau of Labor Statistics. Periodically in *Monthly Labor Review*, and annual bulletin, *Work Injuries in the United States*.

No. 329. NATIONAL AND INTERNATIONAL UNIONS—MEMBERSHIP: 1940 TO 1962

[Includes Alaska and Hawaii. Estimates based on average number of dues-paying members of unions with headquarters in the U.S. Certain unions did not report as members persons not required to pay dues, such as apprentices and workers who were retired, unemployed, in the Armed Forces, or involved in work stoppages. Excludes membership in noninterstate independent or unaffiliated unions. See also *Historical Statistics, Colonial Times to 1957*, series D 741 and 745.]

ITEM	1940	1950	1955	1958	1959	1960	1961	1962
Unions affiliated with AFL-CIO.....	147	137	139	137	135	134	131	130
Membership ¹	1,000.....	8,944	15,000	17,749	18,081	18,169	18,117	17,328
Percent of total labor force ²		15.5	22.0	24.4	23.9	23.8	23.3	22.0
Percent of employment in nonagricul-tural establishments ²		26.9	31.5	33.2	33.1	32.1	31.4	30.7
AFL-CIO.....	1,000.....	7,872	12,143	16,062	14,993	15,124	15,072	14,572
Independent or unaffiliated unions.....	1,000.....	1,072	2,600	1,688	3,088	3,044	3,045	2,756

¹ Includes Canadian members of labor unions with headquarters in U.S. (1,068,000 in 1960, 1,025,000 in 1961, and 1,044,000 in 1962).

² Percentages calculated on union membership excluding Canadian membership.

Source: Dept. of Labor, Bureau of Labor Statistics; *Handbook of Labor Statistics*, *Directory of National and International Labor Unions in the United States*, and unpublished data.

Labor Force, Employment, and Earnings

No. 330. NATIONAL AND INTERNATIONAL UNIONS, BY MEMBERSHIP SIZE-CLASS: 1962

[Includes Alaska and Hawaii. Data are for unions with headquarters in the U.S. See headnote, table 329]

MEMBERSHIP SIZE-CLASS	NUMBER OF UNIONS			Total membership ¹ (1,000)	MEMBERSHIP SIZE-CLASS	NUMBER OF UNIONS			Total membership ¹ (1,000)
	Total	AFL-CIO	Unaffiliated			Total	AFL-CIO	Unaffiliated	
Total	181	130	51	17,564	50,000 to 99,999.....	26	22	4	1,762
Under 1,000.....	15	5	10	6	100,000 to 199,999.....	23	22	1	3,334
1,000 to 4,999.....	29	13	16	134	200,000 to 299,999.....	7	7	-----	1,917
5,000 to 9,999.....	14	8	6	95	300,000 to 399,999.....	4	4	-----	1,373
10,000 to 24,999.....	27	24	3	411	400,000 to 499,999.....	4	3	1	1,765
25,000 to 49,999.....	26	17	9	959	500,000 to 999,999.....	4	4	-----	3,278
					1,000,000 and over.....	2	1	1	2,531

¹ Excludes membership of Federal labor unions and local industrial unions.Source: Dept. of Labor, Bureau of Labor Statistics; *Directory of National and International Labor Unions in the United States, 1963* (Bulletin No. 1395).

No. 331. NATIONAL AND INTERNATIONAL UNIONS REPORTING 100,000 MEMBERS OR MORE: 1960 AND 1962

[In thousands. Data are for unions with headquarters in the U.S. All unions not identified as independent (Ind.) are affiliated with the AFL-CIO]

UNION	MEMBERS		UNION	MEMBERS		UNION	MEMBERS	
	1960	1962		1960	1962		1960	1962
Teamsters (Ind.).....	1,484	1,457	Electrical (IUE).....	288	295	Bricklayers.....	155	151
Automobile.....	1,126	1,074	Building service.....	272	294	Letter carriers.....	138	150
Steel.....	1,152	879	Musicians.....	267	282	Postal clerks.....	(1)	145
Machinists.....	898	868	Communications.....	260	279	Iron workers.....	148	139
Electrical (IBEW).....	771	793	Plumbing.....	251	251	Transport workers.....	135	135
Carpenters.....	800	739	State and county.....	210	220	Street, electric railway.....	132	134
Mine (Ind.).....	600	450	Painters.....	193	196	Papermakers.....	140	130
Hotel.....	443	445	Railroad trainmen.....	159	196	Railway carmen.....	125	126
Garment, ladies.....	447	441	Textile workers.....	192	183	Boilermakers.....	140	125
Hod carriers.....	442	420	(TWUA).....	171	174	Printing pressmen.....	114	116
Clothing.....	377	376	Pulp.....	174	168	Sheet metal workers.....	100	111
Retail clerks.....	342	364	Oil.....	160	163	Fire fighters.....	95	109
Meat cutters.....	333	333	Electrical (UE) (Ind.).....	143	159	Government (A.F.G.E.).....	70	106
Railway and steamship clerks.....	300	300	Rubber.....	170	158	Typographical.....	105	106
Engineers, operating.....	291	297	Maintenance of way.....	164	153	Packinghouse.....	103	98
						Mine, mill (Ind.).....	100	75

¹ Formed on July 1, 1961.Source: Dept. of Labor, Bureau of Labor Statistics; *Directory of National and International Labor Unions in the United States, 1963* (Bulletin No. 1395).

Work Stoppages

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No. 332. WORK STOPPAGES: 1940 TO 1963

[Beginning 1959, includes Alaska, and 1960, Hawaii. Excludes work stoppages involving fewer than 6 workers or lasting less than 1 day. Information obtained directly from companies and unions involved as well as from various Government labor boards, conciliation services, and other neutral parties. See also *Historical Statistics, Colonial Times to 1957*, series D 764-769 and D 774.]

YEAR	WORK STOPPAGES BEGINNING IN YEAR		WORKERS INVOLVED		MAN-DAYS IDLE DURING YEAR		
	Number	Average duration (calendar days)	Number (1,000) ¹	Percent of total employed ²	Number (1,000)	Percent of estimated working time ³	Per worker involved
1940	2,508	20.9	577	2.3	6,700	0.10	11.6
1945	4,750	9.9	3,470	12.2	38,000	0.47	11.0
1950	4,843	19.2	2,410	6.9	38,800	0.44	16.1
1955	4,320	18.5	2,650	6.2	28,200	0.26	10.7
1956	3,825	18.9	1,900	4.3	33,100	0.29	17.4
1957	3,673	19.2	1,390	3.1	16,500	0.14	11.4
1958	3,694	19.7	2,060	4.8	23,900	0.22	11.6
1959	3,708	24.6	1,880	4.3	69,000	0.61	36.7
1960	3,833	23.4	1,320	3.0	19,100	0.17	14.5
1961	3,367	23.7	1,450	3.2	16,300	0.14	11.2
1962	3,614	24.6	1,230	2.7	18,600	0.16	15.0
1963	3,362	23.0	941	2.0	16,100	0.13	17.1

¹ Workers counted more than once if involved in more than 1 stoppage during year.

² Total employed workers for 1940-1950 refer to all workers except those in occupations and professions in which there is little if any union organization or in which stoppages rarely if ever occur. In 1951, concept was changed, to coincide with the Bureau of Labor Statistics figures for nonagricultural employment, excluding Government, but including workers in all occupational groups. Tests show that percentage of total idleness computed on basis of these new figures usually differs by less than one-tenth of a point, while percentage of workers idle differs by about 0.5 or 0.6 of a point.

³ Estimated working time computed by multiplying average number of employed workers (see footnote 2) by number of days worked by most employees.

Source: Dept. of Labor, Bureau of Labor Statistics; June issues of *Monthly Labor Review*, and annual bulletin, *Analysis of Work Stoppages*.

No. 333. WORK STOPPAGES—MAJOR ISSUES AND DURATION: 1961 TO 1963

[Includes Alaska and Hawaii. See headnote, table 332. Issues data based on stoppages beginning in year; duration data on stoppages ending in year. See *Historical Statistics, Colonial Times to 1957*, series D 770-778, for related but not comparable data.]

MAJOR ISSUES AND DURATION	WORK STOPPAGES			WORKERS INVOLVED ¹ (1,000)			MAN-DAYS IDLE DURING YEAR (1,000)		
	1961	1962	1963	1961	1962	1963	1961	1962	1963
MAJOR ISSUES									
All issues	3,367	3,614	3,362	1,450	1,230	941	16,300	18,600	16,100
General wage changes	1,359	1,529	1,322	483	612	394	6,520	12,000	10,700
Supplementary benefits	145	109	77	33	29	25	458	481	258
Wage adjustments	154	180	164	47	82	47	823	704	490
Hours of work	6	6	10	2	2	4	5	46	75
Other contractual matters	26	34	32	3	8	5	33	40	132
Union organization and security	518	582	531	92	106	94	2,390	1,780	1,640
Job security	243	220	210	183	126	74	1,800	1,570	611
Plant administration	462	516	548	503	108	225	3,630	1,450	1,670
Other working conditions	48	44	58	15	13	16	333	181	121
Interunion or intraunion matters	364	349	381	88	53	52	273	287	352
Not reported	42	45	29	4	6	4	14	17	26
DURATION									
All stoppages	3,324	3,632	3,333	1,440	1,150	1,010	15,700	16,900	16,400
1 day	388	372	406	152	134	99	152	134	99
2 and 3 days	558	540	533	136	182	141	288	397	284
4 days to less than 1 week	454	525	535	106	111	142	355	371	449
1 week to less than 1/2 month	642	774	710	289	258	222	1,820	1,670	1,400
1/2 to less than 1 month	526	559	491	525	169	167	5,060	2,300	2,230
1 to less than 2 months	416	470	320	165	187	117	4,000	5,060	3,020
2 to less than 3 months	149	168	133	44	72	27	1,950	3,190	1,320
3 months or more	191	224	205	25	38	95	2,040	3,770	7,560

¹ See footnote 1, table 332.

Source: Dept. of Labor, Bureau of Labor Statistics; June issues of *Monthly Labor Review*, and annual bulletin, *Analysis of Work Stoppages*.

Labor Force, Employment, and Earnings

No. 334. WORK STOPPAGES, BY INDUSTRY GROUPS: 1950 TO 1963

[Beginning 1960, includes Alaska and Hawaii. See headnote, table 332. Work stoppages affecting more than 1 industry are counted as separate stoppages in each industry affected, and workers involved and man-days idle are allocated among the appropriate industries.]

INDUSTRY GROUP	WORK STOPPAGES BEGINNING IN—												MAN-DAYS IDLE DURING YEAR (1,000)								
	1950			1955			1960			1963			1950			1955			1960		
	4,843	4,320	3,333	3,367	3,614	3,362	2,410	2,650	1,320	1,450	1,230	941	38,800	28,200	19,100	16,300	18,600	16,100	16,300	18,600	16,100
MANUFACTURING																					
Ordnance and accessories—	2	13	3	6	7	9	1	11	10	6	30	9	6	601	539	51	202	25	25	25	25
Food and kindred products—	185	169	184	177	206	155	57	40	66	80	55	53	33	1	11	614	521	444	444	444	444
Tobacco manufactures—	5	3	2	3	3	2	3	2	1	1	2	13	13	13	1	34	30	21	21	21	21
Textile-mill products—	147	96	30	36	30	36	48	48	5	6	7	13	13	13	13	136	136	134	134	134	134
Apparel and other finished products, etc.—	187	139	87	112	95	109	18	15	15	12	5	24	22	22	22	228	228	146	146	146	146
Lumber and wood products (exc. furniture)—	119	81	39	75	72	64	24	12	13	13	41	700	227	103	234	248	248	1,360	1,360	1,360	1,360
Furniture and fixtures—	106	121	81	62	63	54	16	13	13	13	12	9	9	9	9	287	287	183	256	256	1,146
Paper and allied products—	76	67	52	50	53	55	19	14	9	15	19	9	9	9	9	360	360	197	136	324	324
Printing, publishing, and allied industries—	54	29	38	103	91	94	10	39	40	22	9	45	14	14	14	240	240	176	176	176	176
Chemicals and allied products—	96	105	91	12	17	10	14	16	16	3	2	15	7	2	2	702	702	634	634	634	634
Products of petroleum and coal—	22	18	12	65	66	65	17	10	14	16	30	23	15	32	32	355	355	50	50	50	50
Rubber and miscellaneous plastic products—	136	105	53	93	82	82	38	25	40	6	18	8	24	24	24	490	490	215	215	169	169
Leather and leather products—	84	50	32	32	32	32	33	33	33	18	18	18	16	16	16	542	542	70	70	58	58
Stone, clay, and glass products—	132	110	98	120	113	113	45	45	45	56	56	94	74	74	74	495	495	228	228	318	318
Primary metal industries—	309	279	165	126	176	131	142	142	142	142	142	85	85	85	85	1,180	1,180	1,570	1,570	1,880	1,880
Fabricated metal products (exc. ordnance, machinery, and transportation equip.)—	278	282	195	191	220	193	86	131	44	97	43	41	41	41	41	960	960	579	579	1,130	1,130
Machinery (except electrical) —	317	306	144	176	166	171	224	220	69	69	89	63	59	59	59	4,410	4,410	3,800	3,800	1,240	1,240
Electrical machinery—	168	147	102	98	100	101	368	410	189	189	237	67	64	64	64	1,441	1,441	1,200	1,200	1,200	1,200
Transportation equipment—	171	200	122	98	100	101	368	410	189	189	237	82	72	72	72	5,530	5,530	2,500	2,500	1,410	1,410
Professional, scientific, and controlling instruments; photographic and optical instruments—	26	30	20	19	38	27	23	23	14	14	5	13	15	5	15	694	694	170	170	418	418
Goods; watches and clocks—	96	99	54	56	54	54	46	19	10	14	5	10	7	8	8	237	237	191	191	125	125
Miscellaneous manufacturing industries—																					
NONMANUFACTURING																					
Agriculture, forestry, and fisheries—	12	11	81	31	16	25	21	3	8	11	3	16	152	14	14	160	160	51	51	50	50
Mining—	508	343	154	154	159	158	196	114	49	38	32	46	9,700	1,050	1,050	760	760	933	933	933	933
Construction—	611	733	773	824	913	840	237	204	269	217	254	208	2,460	1,810	1,810	4,470	4,470	3,490	3,490	4,150	4,150
Wholesale and retail trade—	391	403	290	303	364	236	70	52	33	62	30	34	927	1,090	1,090	461	461	716	716	335	335
Finance, insurance, and real estate—	311	31	8	6	11	13	13	13	1	1	1	1	33	7	7	7	7	3	3	3	3
Transportation, communication, etc.—	386	275	266	243	213	205	405	238	18	18	18	18	63	2,380	4,860	4,860	1,710	1,710	2,490	2,490	2,540
Services—personal, business, and other—	182	121	138	103	121	121	14	18	18	9	13	13	13	13	13	1,304	1,304	173	173	145	145
Government—administration, protection and sanitation—	28	17	36	28	28	28	28	4	1	29	7	31	5	33	7	58	58	15	15	79	79

Source: Dept. of Labor, Bureau of Labor Statistics; May (1951 and 1946) and June issues of *Monthly Labor Review*, and annual bulletin, *Analysis of Work Stoppages*.

¹ Workers counted more than once if involved in more than 1 stoppage during year.

^a Less than 500.

Work Stoppages

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No. 335. WORK STOPPAGES, BY STATES: 1961 TO 1963

[See headnote, table 332. Work stoppages affecting more than 1 State are counted as separate stoppages in each State affected, and workers involved and man-days idle are allocated among the appropriate States]

STATE	WORK STOPPAGES BEGINNING IN—			WORKERS INVOLVED ¹ (1,000)			MAN-DAYS IDLE DURING YEAR					
							Number (1,000)			Percent of estimated working time ²		
	1961	1962	1963	1961	1962	1963	1961	1962	1963	1961	1962	1963
United States	3,367	3,614	3,362	1,450	1,230	941	16,300	18,600	16,100	0.14	0.16	0.13
New England:												
Maine	6	12	13	1	1	(8)	5	11	16	0.01	0.02	0.03
New Hampshire	3	15	21	(8)	3	2	2	16	34	(4)	0.04	0.07
Vermont	10	13	7	1	2	1	34	90	5	0.15	0.38	0.02
Massachusetts	134	153	114	45	23	32	412	442	510	0.10	0.10	0.12
Rhode Island	23	25	19	2	4	3	17	46	65	0.03	0.07	0.10
Connecticut	56	63	53	18	26	15	372	450	281	0.18	0.21	0.13
Middle Atlantic:												
New York	421	464	437	180	214	130	1,860	2,410	2,600	0.14	0.18	0.19
New Jersey	234	238	224	82	58	42	762	646	622	0.17	0.14	0.13
Pennsylvania	393	397	394	112	118	98	1,730	1,390	1,280	0.21	0.17	0.16
East North Central:												
Ohio	283	298	265	127	75	63	1,420	1,110	861	0.21	0.16	0.12
Indiana	107	138	112	61	47	40	510	821	526	0.17	0.26	0.16
Illinois	219	240	213	92	64	62	869	995	888	0.11	0.13	0.11
Michigan	180	196	135	239	81	37	1,820	1,440	611	0.38	0.28	0.12
Wisconsin	54	64	56	19	22	18	285	289	336	0.11	0.11	0.13
West North Central:												
Minnesota	46	47	40	21	10	8	452	259	90	0.22	0.12	0.04
Iowa	47	48	44	13	16	15	158	145	108	0.11	0.10	0.07
Missouri	88	95	108	35	26	46	470	361	654	0.16	0.12	0.22
North Dakota	4	7	3	(8)	1	(8)	4	18	1	0.02	0.07	(4)
South Dakota	14	9	11	3	3	1	7	19	3	0.03	0.07	0.01
Nebraska	26	26	15	6	4	5	70	57	29	0.09	0.07	0.04
Kansas	39	14	25	8	1	5	65	47	45	0.06	0.04	0.04
South Atlantic:												
Delaware	23	12	18	5	4	2	79	47	15	0.23	0.14	0.04
Maryland	46	42	34	14	15	7	185	151	156	0.10	0.07	0.07
District of Columbia	10	5	11	5	(3)	4	46	2	39	0.06	(4)	0.05
Virginia	40	37	38	13	10	8	112	110	71	0.05	0.05	0.03
West Virginia	81	84	80	13	17	20	197	201	173	0.21	0.21	0.18
North Carolina	14	17	15	2	6	2	6	97	15	(4)	0.04	0.01
South Carolina	8	10	7	1	2	1	13	13	49	0.01	0.01	0.04
Georgia	30	21	25	18	5	9	241	193	202	0.11	0.08	0.12
Florida	66	48	83	24	14	23	183	450	728	0.06	0.16	0.24
East South Central:												
Kentucky	67	90	64	16	27	10	119	236	112	0.09	0.17	0.08
Tennessee	58	49	52	11	9	18	202	208	682	0.10	0.10	0.32
Alabama	65	50	47	13	20	15	167	196	198	0.11	0.12	0.12
Mississippi	15	7	10	4	2	3	47	16	10	0.06	0.02	0.01
West South Central:												
Arkansas	30	22	28	3	4	4	43	42	32	0.06	0.05	0.04
Louisiana	34	45	40	6	20	7	207	459	325	0.13	0.28	0.20
Oklahoma	29	18	16	9	2	2	92	51	25	0.08	0.04	0.02
Texas	82	86	72	41	23	7	798	468	547	0.15	0.08	0.10
Mountain:												
Montana	16	21	27	2	6	8	38	160	66	0.12	0.51	0.20
Idaho	18	22	11	2	3	1	20	48	28	0.06	0.15	0.09
Wyoming	16	9	7	2	1	(8)	18	8	1	0.09	0.04	0.01
Colorado	49	33	27	17	7	6	220	273	101	0.21	0.25	0.09
New Mexico	10	17	12	6	3	3	53	175	94	0.12	0.39	0.21
Arizona	13	26	15	3	17	3	32	175	69	0.05	0.24	0.09
Utah	13	19	23	9	5	16	128	21	78	0.24	0.04	0.14
Nevada	9	31	22	3	4	13	28	50	46	0.13	0.19	0.15
Pacific:												
Washington	82	85	55	15	42	24	251	727	543	0.15	0.42	0.32
Oregon	25	37	34	17	20	13	229	177	508	0.22	0.16	0.46
California	269	263	276	99	143	60	1,110	2,660	1,340	0.11	0.25	0.12
Alaska	10	10	10	3	1	1	41	10	8	0.49	0.12	0.00
Hawaii	33	34	27	22	4	23	47	71	176	n.a.	0.19	0.47

n.a. Not available.

¹ See footnote 1, table 332. ² See footnote 3, table 332.

³ Less than 500. ⁴ Less than 0.005 percent.

Source: Dept. of Labor, Bureau of Labor Statistics; annual bulletin, *Analysis of Work Stoppages*; release, *Work Stoppages by State*; and *Monthly Labor Review*.